Clarion

Clarion Co., Ltd.
50 Kamitoda, Toda-shi, Saitama 335-8511 Japan
Service Dept.: 5-66 Azuma , Kitamoto-shi, Saitama 364-0007 Japan
Tel: +81-48-541-2335 / 2432 FAX: +81-48-541-2703

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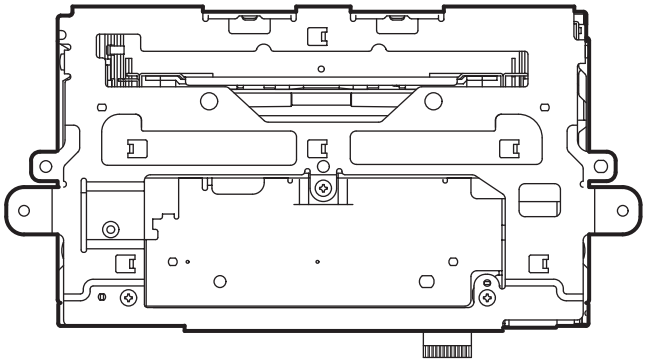
Service Manual



NISSAN Automobile Genuine
6-disc CD/MP3/WMA Autochanger
AM/FM Radio Stereo(160W Type)

Model PP-2664D-A
(Genuine No. 28185 AC700)

Model PP-2664D-B
(Genuine No. 28185 AC702)

SPECIFICATIONS

Radio section

Tuning system:	PLL frequency synthesizer system
Receive range:	AM 530kHz to 1,710kHz
	FM 87.75MHz to 107.9MHz
Intermediate frequency:	AM 450kHz
	FM 10.7MHz
Quieting sensitivity:	AM Less than 38dBu(at 20dB S/N)
	FM Less than 15dBu(at 30dB S/N)
Separation:	FM 22+5/-7dB(1kHz)
Auto tuning stop sensitivity:	
	AM 42+/-6dBu(603kHz)
	39+/-6dBu(999/1,404kHz)
	FM 32+/-6dBu

CD section

Mechanism:	6-disc CD autochanger
Disc:	12cm disc
Format:	CD-DA,MP3,WMA
Separation:	More than 50dB(1kHz,20kHz L.P.F.)
S/N ratio:	More than 74dB(1kHz JIS-A)
Distortion:	Less than 0.4%(20kHz L.P.F.)

General

Load impedance:	4ohm/4ch
Power output:	40Wx4
Power supply voltage:	DC13.2V(10.8V to 15.6V)
	Negative ground
Back-up consumption:	Less than 0.5mA
Dimensions(mm):	180(W)×106.4(H)×167(D)
Weight:	Approx. 3.5kg

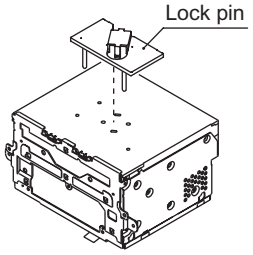
COMPONENTS

PP-2664D-A / PP-2664D-B

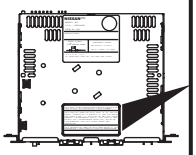
1.	Main unit	----------	1

NOTE

* Specifications and design are subject to change without notice for further improvement.
* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
* This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.
* In case that the main unit or the CD changer mechanism is transported for repair, the lock pin(966-0653-00) must be set to fix the mechanism assy.



CAUTIONS



Top view of the unit

This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE,AND(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

THIS PRODUCTION COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.

Guide label

Use of controls,adjustment,or performance of procedures other than those specified herein,may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron, make sure that the iron tip temperature is around 270℃. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.
8. Cautions in checking that the optical pickup lights up.
   The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
9. Cautions in handling the optical pickup
   The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode
   The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator
   The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens
   Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

ADJUSTMENTS

Item	Procedure	Measuring instrument
Diversity	1. Turn off the unit, and continue pressing "DISP" button for several seconds. (An antenna input was set main channel, and "MA" appears in the display.) 2. Set the volume to minimum. 3. Input a 98.1MHz/26dBu(1kHz,30%MOD) signal. 4. Connect a digital tester to TP101, and adjust VR101 so that the reading of the digital tester becomes "high" from "low" exactly. 5. Set the SSG output to 22dBu, and confirm the reading of TP101 becomes "high" from "low" within 3 seconds. 6. Set the SSG output to 30dBu, and confirm the voltage rage of TP101 is 10V from 2V. 7. Set the SSG output to 20dBu, and confirm the voltage of TP101 becomes less than 1.0V within 5 seconds.	SSG Digital tester Oscilloscope
Noise Convergence	1. Set an antenna input to main channel. 2. Input a 98.1MHz/55dBu(1kHz,30%MOD) signal, and set the output power of the unit to 0.5W(= 0dB). 3. Adjust VR102 so that the noise level becomes -22dB.	SSG Digital tester

Checking the connection with " Switch-panel "

When a switch-panel is correctly connected with the main unit, " ES-RETURN " terminal(pin 3) of a microcomputer(IC202) is " low ". When a switch-panel is incorrectly connected with the main unit, "ES-RETURN" line is cut, and BEEP sounds.

EXPLANATION OF IC

052-3161-50 M30624MGA-600GP System Controller

Terminal Description

pin 1: WAKE UP : IN : Wake up signal input.
pin 2: ACC ON : O : ACC ON signal output.
pin 3: ES RETURN : IN : The flexible PWB connection OK flag input.
pin 4: NU : - : Not in use.
pin 5: NU : - : Not in use.
pin 6: BYTE : IN : The data length selection(8bit/16bit).
pin 7: CN VSS : IN : Connect to VSS.
pin 8: TEST : IN : For the test.
pin 9: NU : - : Not in use.
pin 10: RESET : IN : Reset signal input.
pin 11: X out : O : Crystal connection.
pin 12: GND : - : Ground.
pin 13: X IN : IN : Crystal connection.
pin 14: VDD : - : Positive voltage supply.
pin 15: NMI : IN : Nonmaskable interrupt.
pin 16: BU DET : IN : Backup detection signal input.
pin 17: ACC DET : IN : ACC detection signal input.
pin 18: TEL ON : IN : Telephone ON signal input.
pin 19: ILL DET : IN : Illumination ON signal input.
pin 20: AMP ON : O : Audio power amplifier ON signal output.
pin 21: SYS ON : O : System ON signal output.
pin 22: VFD ON : O : VFD ON signal output.
pin 23: NU : - : Not in use.
pin 24: BEEP out : O : Beep out.
pin 25: TEL/NAVI MUTE : O : The muting signal output for the telephone and the navigation.
pin 26: 6-CD REQ : IN : The request signal input from the 6CD-Changer.
pin 27: 6-CD RX : IN : The serial data input for 6CD-Changer.
pin 28: 6-CD TX : O : The serial data output for 6CD-Changer.
pin 29: NDS/FLASH TX : O : The serial data output for NDS and Flash memory.
pin 30: NDS/FLASH RX : IN : The serial data input for NDS and Flash memory.
pin 31: FLASH CLK : O : The clock pulse output for the flash memory.
pin 32: NAVI ON : IN : NAVI ON signal input.
pin 33: ES TX : O : Escutcheon serial data output.
pin 34: ES RX : IN : Escutcheon serial data input.
pin 35: NDS A/C SEL : O : NDS A/C selection signal output.
pin 36: NDS A/C REQ 2 : IN : The request signal input from NDS A/C 2.
pin 37: NDS A/C REQ 1 : IN : The request signal input from NDS A/C 1.
pin 38: NDS A/C A SEL : O : The audio signal selection command output for NDS A/C.
pin 39: FLASH EPM : O : FLASH EPM.
pin 40: EEP ROM DO : O : The serial data output to the EEP-ROM.
pin 41: EEP ROM CK : O : The clock pulse output to the EEP-ROM.
pin 42: EEP ROM DI : IN : The serial data input from the EEP-ROM.
pin 43: EEP ROM CE : O : The chip enable signal output to the EEP-ROM.
pin 44: FLASH CE : IN : The chip enable signal input for the flash memory.
pin 45: CD ON : O : CD ON signal output.
pin 46: AUX REQ : O : AUX request signal output.
pin 47: AUX ON : IN : AUX ON signal input.
pin 48: COMBI ON : O : Combi ON flag output.
pin 49: E VOL DO : O : Serial data output to the volume IC.
pin 50: E VOL CE : O : Chip enable signal output to the volume IC.
pin 51: Power IC SDA : O : The serial data output to Power IC.
pin 52: Power IC CLK : O : The clock pulse output to Power IC.
pin 53: Power IC Stndb : O : The standby signal output to Power IC.
pin 54: Power IC Diag : IN : Power IC Diagnosis signal input.
pin 55: NU : - : Not in use.
pin 56: NU : - : Not in use.
pin 57: NU : - : Not in use.
pin 58: NU : - : Not in use.
pin 59: NU : - : Not in use.
pin 60: VDD : - : Positive voltage supply.
pin 61: NU : - : Not in use.
pin 62: GND : - : Ground.
pin 63: PLL CE : O : The chip enable signal output to the PLL IC.
pin 64: PLL CLK : O : The clock pulse output to the PLL IC.
pin 65: PLL DO : O : Serial data output to the PLL IC.
pin 66: PLL DI : IN : Serial data input from the PLL IC.

pin 67: ST/TWEET :I/O: Outputs "L" at AM 900kHz receiving. Inputs "L" at FM stereo receiving.
pin 68: NU : - : Not in use.
pin 69: NU : - : Not in use.
pin 70: RDS DATA : IN : RDS serial data input.
pin 71: RDS CLK : O : RDS clock pulse output.
pin 72: Speed Pulse : IN : Speed pulse input.
pin 73: MD LD : IN : Disc-in signal input from the MD mechanism.
pin 74: FAN ON : O : The fan on signal output.
pin 75: MD 5V : O : The power ON signal output for the MD mechanism.
pin 76: MD WP : O : Wake up signal output to the MD mechanism.
pin 77: MD CS : O : The chip selection signal output to the MD mechanism.
pin 78: MD SCK : O : The clock pulse output to the MD mechanism.
pin 79: MD SO : O : Serial data output to the MD mechanism.
pin 80: MD RESET : O : Reset pulse output to the MD mechanism.
pin 81: MD SRQ : IN : Request signal input from the MD mechanism.
pin 82: MD SI : IN : Serial data input from the MD mechanism.
pin 83: AREA 1 : IN : The destination setting input.
pin 84: AREA 2 : IN : The destination setting input.
pin 85: 160W / BOSE : IN : The initial setting terminal. Low = BOSE.
pin 86: CD CONNECT : IN : CD connection check signal input.
pin 87: NU : - : Not in use.
pin 88: NU : - : Not in use.
pin 89: NU : - : Not in use.
pin 90: NU : - : Not in use.
pin 91: NU : - : Not in use.
pin 92: HAND REM A : IN : Steering wheel remote controller input.
pin 93: HAND REM B : IN : Steering wheel remote controller input.
pin 94: A VSS : - : Negative voltage supply for analog section.
pin 95: S METER : IN : The input terminal of internal A/D converter to monitor the radio field strength.
pin 96: Vref : - : Reference voltage.
pin 97: A VDD : - : Positive voltage supply for analog section.
pin 98: NU : - : Not in use.
pin 99: NU : - : Not in use.
pin100: NU : - : Not in use.

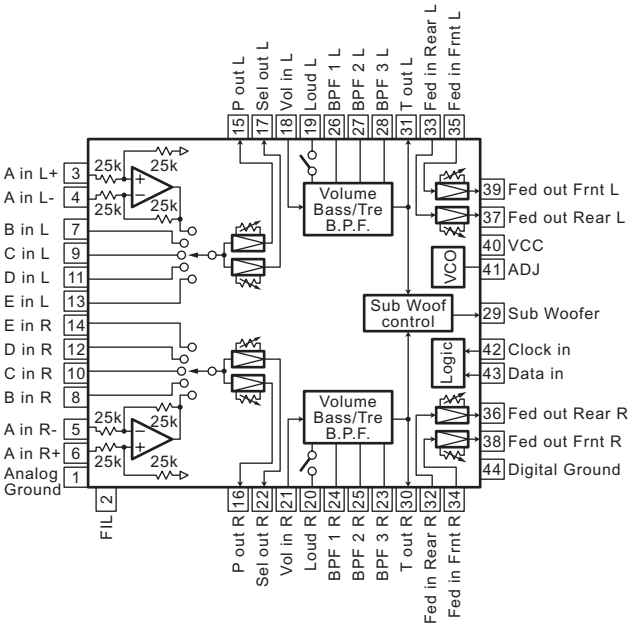
052-5061-01 M30621MCM-4S5GP Mechanism Controller

[NOTE] This IC is compatible with 052-5061-00.

Terminal Description

pin 1: HSSW1 : IN : L = It operates by one twice the speed of a standard.
pin 2: NU : - : Not in use.
pin 3: NU : - : Not in use.
pin 4: NU : - : Not in use.
pin 5: NU : - : Not in use.
pin 6: CN VSS : IN : Connect to VSS.
pin 7: NU : - : Not in use.
pin 8: NU : - : Not in use.
pin 9: RESET : IN : Reset signal input.
pin 10: X out : O : Crystal connection.
pin 11: VSS : - : Negative voltage supply.
pin 12: X IN : IN : Crystal connection.
pin 13: VDD : - : Positive voltage supply.
pin 14: NMI : IN : Not in use.
pin 15: NU : - : Not in use.
pin 16: ACC DET : IN : ACC detection signal input.
pin 17: BU DET : IN : Backup detection signal input.
pin 18: PON 2 : O : Power ON signal output.
pin 19: NU : - : Not in use.
pin 20: NDS REQ : O : NDS request signal output.
pin 21: NU : - : Not in use.
pin 22: NDS RX : IN : NDS serial data input.
pin 23: NDS TX : O : NDS serial data output.
pin 24: T DATA : O : The display data output for the test mode indication.
pin 25: T CLK : O : The test clock output.
pin 26: Flash Write Set : IN : The flash memory writing mode setting input.
pin 27: DSP V-BUS CS : O : DSP V-BUS Chip Select.
pin 28: DSP V-BUS DO : O : DSP V-BUS Data Output.
pin 29: DSP V-BUS DI : IN : DSP V-BUS Data Input.
pin 30: DSP V-BUS CK : O : DSP V-BUS Clock output.
pin 31: V-BUS SRQ : IN : V-BUS Slave request.
pin 32: SW 1 : IN : The switch signal input.
pin 33: SW 2 : IN : The switch signal input.
pin 34: EPM : IN : The flash memory control setting.
pin 35: PT 2 : IN : The photo sensor signal input.
pin 36: PT 5 : IN : The photo sensor signal input.
pin 37: PT 4 : IN : The photo sensor signal input.
pin 38: PT 3 : IN : The photo sensor signal input.
pin 39: ROM Correct : IN : ROM correction control signal input.
pin 40: PT 6 : IN : The photo sensor signal input.
pin 41: SW 9V : O : 9V power supply control.
pin 42: PT 1 : IN : The photo sensor signal input.
pin 43: LM CCW : O : Loading motor control output.
pin 44: LM CW : O : Loading motor control output.
pin 45: VM CCW : O : V motor control output.
pin 46: VM CW : O : V motor control output.
pin 47: MM CCW : O : Mode motor control output.
pin 48: MM CW : O : Mode motor control output.
pin 49: D MUTE : O : Digital mute signal output.
pin 50: DSP RESET : O : Reset signal output to the DSP IC.
pin 51: DSP Wakeup : O : DSP wakeup command output.
pin 52: TEST 4 : IN : For the test.
pin 53: TEST 3 : IN : For the test.
pin 54: TEST 2 : IN : For the test.
pin 55: TEST 1 : IN : For the test.
pin 56: EEP DI : IN : The serial data input from the EEP-ROM.
pin 57: EEP DO : O : The serial data output to the EEP-ROM.
pin 58: EEP CLK : O : The clock pulse output to the EEP-ROM.
pin 59: EEP CE : O : The chip enable signal output to the EEP-ROM.
pin 60: OEM SW 1 : IN : The destination setting.
pin 61: OEM SW 2 : IN : The destination setting.
pin 62: A MUTE : O : The audio mute signal output.
pin 63: NU : - : Not in use.
pin 64: NU : - : Not in use.
pin 65: NU : - : Not in use.
pin 66: SHUT : IN : The shutter signal input.
pin 67: P ON 1 : O : Power ON signal output.
pin 68: NU : - : Not in use.
pin 69: NU : - : Not in use.
pin 70: NU : - : Not in use.
pin 71: NU : - : Not in use.
pin 72: NU : - : Not in use.
pin 73: NU : - : Not in use.
pin 74: NU : - : Not in use.
pin 75: A VSS : - : Negative voltage supply for analog section.
pin 76: NU : - : Not in use.
pin 77: Vref : - : Reference voltage.
pin 78: A VCC : - : Positive voltage supply for the internal analog section.
pin 79: T CLK : O : "Test mode display" clock output.
pin 80: NU : - : Not in use.

051-5037-90 BD3807K Audio signal processor



Terminal Description

pin 1:	A GND	: Analog ground.
pin 2:	FIL	: VCC/2.
pin 3:	A in L+	: A Non-iverted input, Left channel.
pin 4:	A in L-	: A Inverted input, Left channel.
pin 5:	A in R-	: A Inverted input, Right channel.
pin 6:	A in R+	: A Non-iverted input, Right channel.
pin 7:	B in L	: B Input, Left channel.
pin 8:	B in R	: B Input, Right channel.
pin 9:	C in L	: C Input, Left channel.
pin 10:	C in R	: C Input, Right channel.
pin 11:	D in L	: D Input, Left channel.
pin 12:	D in R	: D Input, Right channel.
pin 13:	E in L	: E Input, Left channel.
pin 14:	E in R	: E Input, Right channel.
pin 15:	P out L	: Input-gain ouput, Left channel.
pin 16:	P out R	: Input-gain ouput, Right channel.
pin 17:	SEL out L	: Input-gain ouput, Left channel.
pin 18:	VOL in L	: Volume Input, Left channel.
pin 19:	LOUD L	: Loudness setting, Left channel.
pin 20:	LOUD R	: Loudness setting, Right channel.
pin 21:	VOL in R	: Volume Input, Right channel.
pin 22:	SEL out R	: Input-gain ouput, Right channel.
pin 23:	BPF 3 R	: General-purpose BPF setting 3, Right channel.
pin 24:	BPF 1 R	: General-purpose BPF setting 1, Right channel.
pin 25:	BPF 2 R	: General-purpose BPF setting 2, Right channel.
pin 26:	BPF 1 L	: General-purpose BPF setting 1, Left channel.
pin 27:	BPF 2 L	: General-purpose BPF setting 2, Left channel.
pin 28:	BPF 3 L	: General-purpose BPF setting 3, Left channel.
pin 29:	Sub Woofer	: Sub-woofer output.
pin 30:	Tone out R	: Tone controller output, Right channel.
pin 31:	Tone out L	: Tone controller output, Left channel.
pin 32:	Fed in Rear R	: Right channel Rear Input.
pin 33:	Fed in Rear L	: Left channel Rear Input.
pin 34:	Fed in Frnt R	: Right channel Front Input.
pin 35:	Fed in Frnt L	: Left channel Front Input.
pin 36:	Fed out Rea R	: Right channel Rear output.
pin 37:	Fed out Rea L	: Left channel Rear output.
pin 38:	Fed out Frn R	: Right channel Front output.
pin 39:	Fed out Frn L	: Left channel Front output.
pin 40:	VCC	: Power supply.
pin 41:	ADJ	: VCO frequency adjust.
pin 42:	CLK	: The clock pulse.
pin 43:	DATA	: The serial data.
pin 44:	D GND	: Digital ground.

052-5062-02 MBM29DL800BA-90PFTN 8 M bit Flash Memory

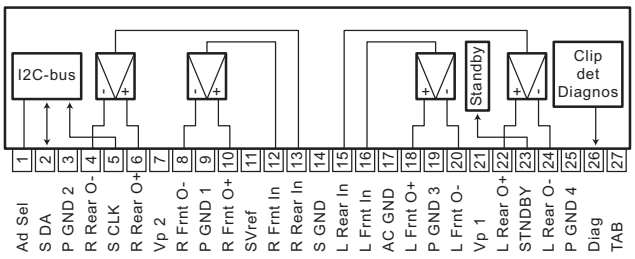
[NOTE] This IC is compatible with 052-5062-01.

Terminal Description

pin 1:	Address 15	: IN : Address signal input.
pin 2:	Address 14	: IN : Address signal input.
pin 3:	Address 13	: IN : Address signal input.
pin 4:	Address 12	: IN : Address signal input.
pin 5:	Address 11	: IN : Address signal input.
pin 6:	Address 10	: IN : Address signal input.
pin 7:	Address 9	: IN : Address signal input.
pin 8:	Address 8	: IN : Address signal input.
pin 9:	NU	: - : Not in use.
pin 10:	NU	: - : Not in use.
pin 11:	WE	: IN : Write enable signal input.
pin 12:	RESET	: IN : Reset signal input.
pin 13:	NU	: - : Not in use.
pin 14:	NU	: - : Not in use.
pin 15:	Ready/Busy	: O : Ready/Busy flag output, H = Ready.
pin 16:	Address 18	: IN : Address signal input.
pin 17:	Address 17	: IN : Address signal input.
pin 18:	Address 7	: IN : Address signal input.
pin 19:	Address 6	: IN : Address signal input.
pin 20:	Address 5	: IN : Address signal input.
pin 21:	Address 4	: IN : Address signal input.
pin 22:	Address 3	: IN : Address signal input.
pin 23:	Address 2	: IN : Address signal input.
pin 24:	Address 1	: IN : Address signal input.
pin 25:	Address 0	: IN : Address signal input.
pin 26:	CE	: IN : Chip enable signal input.
pin 27:	VSS	: - : Negative supply voltage.
pin 28:	OE	: IN : Output enable signal input.
pin 29:	DQ 0	: I/O: The data input / output.
pin 30:	DQ 8	: I/O: The data input / output.
pin 31:	DQ 1	: I/O: The data input / output.
pin 32:	DQ 9	: I/O: The data input / output.
pin 33:	DQ 2	: I/O: The data input / output.
pin 34:	DQ 10	: I/O: The data input / output.
pin 35:	DQ 3	: I/O: The data input / output.
pin 36:	DQ 11	: I/O: The data input / output.
pin 37:	VCC	: - : Positive supply voltage.
pin 38:	DQ 4	: I/O: The data input / output.
pin 39:	DQ 12	: I/O: The data input / output.
pin 40:	DQ 5	: I/O: The data input / output.
pin 41:	DQ 13	: I/O: The data input / output.
pin 42:	DQ 6	: I/O: The data input / output.
pin 43:	DQ 14	: I/O: The data input / output.
pin 44:	DQ 7	: I/O: The data input / output.
pin 45:	DQ 15/A-1	: I/O: The data input/output,TheAddress signal input.
pin 46:	VSS	: - : Negative supply voltage.
pin 47:	BYTE	: IN : The data length selection(8bit/16bit).
pin 48:	Address 16	: IN : Address signal input.

051-2055-00 TDA8593J/N3

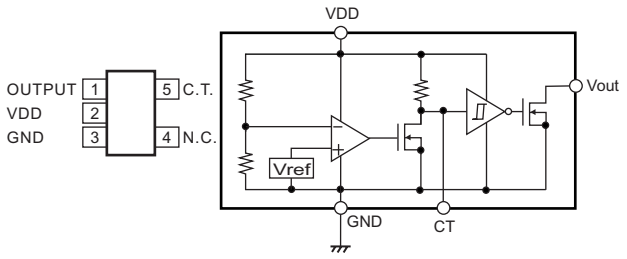
I2C-bus controlled Audio Power Amplifier



Terminal Description

pin 1:	Ad Sel	: I2C address select.
pin 2:	S DA	: I2C data input/output.
pin 3:	P GND 2	: Power ground.
pin 4:	R Rear Out-	: Negaitve right rear output.
pin 5:	S CLK	: I2C clock input.
pin 6:	R Rear Out+	: Positive right rear output.
pin 7:	Vp2	: Power supply.
pin 8:	R Frnt Out-	: Negaitve right front output.
pin 9:	P GND 1	: Power ground.
pin 10:	R Frnt Out+	: Positive right front output.
pin 11:	SVR	: Half supply filter capacitor.
pin 12:	R Front In	: Right front input.
pin 13:	R Rear In	: Right rear input.
pin 14:	S GND	: Signal ground.
pin 15:	L Rear In	: Left rear input.
pin 16:	L Frnt In	: Left front input.
pin 17:	AC GND	: AC ground input.
pin 18:	L Frnt Out+	: Positive left front output.
pin 19:	P GND 3	: Power ground.
pin 20:	L Frnt Out-	: Negaitve left front output.
pin 21:	Vp1	: Power supply.
pin 22:	L Rear Out+	: Positive left rear output.
pin 23:	STANDBY	: Standby operating selecting.
pin 24:	L Rear Out-	: Negaitve left rear output.
pin 25:	P GND 4	: Power ground.
pin 26:	Diag	: Diagnose / clip detection output.
pin 27:	TAB	: Heatsink connection, must be connected to ground.

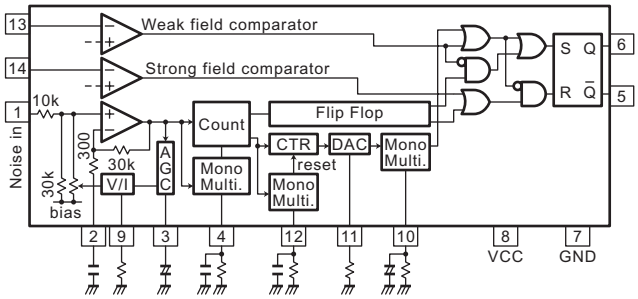
051-5445-08 BD5227G-TR Precision Vlotage Detector 2.7V



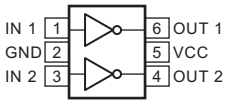
Terminal description

pin 1:	OUTPUT	: N channel open drain output, positive logic.
pin 2:	VDD	: Positive supply voltage.
pin 3:	GND	: Ground.
pin 4:	N.C.	: Not in use.
pin 5:	C.T.	: Delay time capacitor.

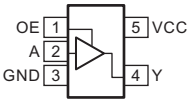
051-4617-90 LA1061M-TE-L Antenna Switching Controller



051-7525-08 SN74LVC2GU04DCKR Dual Inverter



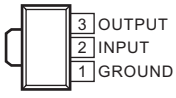
051-7526-08 SN74LVC1G126DCKR Single 3-States Buffer



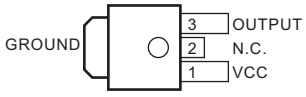
Truth table

OE in	Y out
H	=A
L	High Z

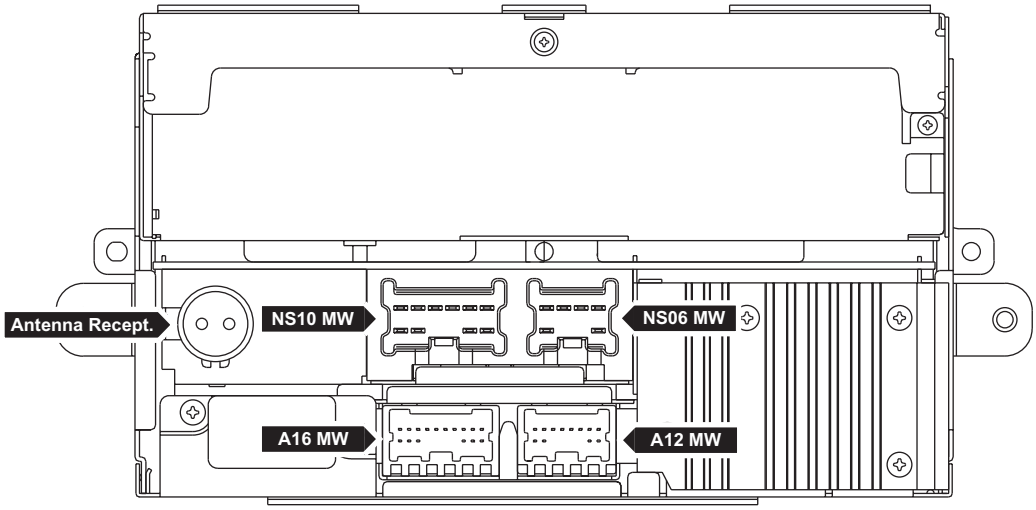
051-3332-90 NJU7222U33 Positive Voltage Regurator (3.3V)



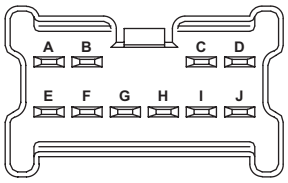
051-3341-90 BD3931FP Positive Voltage Regurator (5.0V)



CONNECTIONS

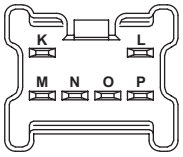


NS10 MW
(Power/Front SP)



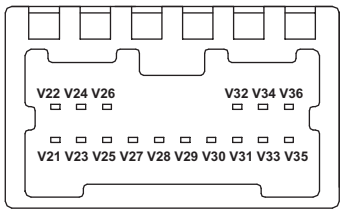
A	Front Lch(+)	F	Front Rch(-)
B	Front Rch(+)	G	ANT-ON
C	ILL(+)	H	Back up
D	ACC	I	N.C.
E	Front Lch(-)	J	GND

NS06 MW
(Rear SP)



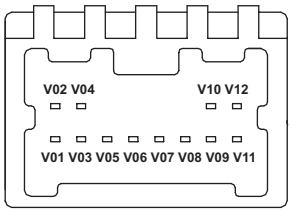
K	N.C.	N	Rear Lch(-)
L	Rear Rch(+)	O	Rear Lch(+)
M	GND	P	Rear Rch(-)

A-16 MW
(Remote control)



V21	N.C.	V29	REMO-GND
V22	SPEED SIG	V30	N.C.
V23	N.C.	V31	N.C.
V24	N.C.	V32	N.C.
V25	N.C.	V33	GND
V26	REMO-A	V34	NAVI IN(-)
V27	REMO-B	V35	NAVI-GND
V28	NAVI-ON	V36	NAVI IN(+)

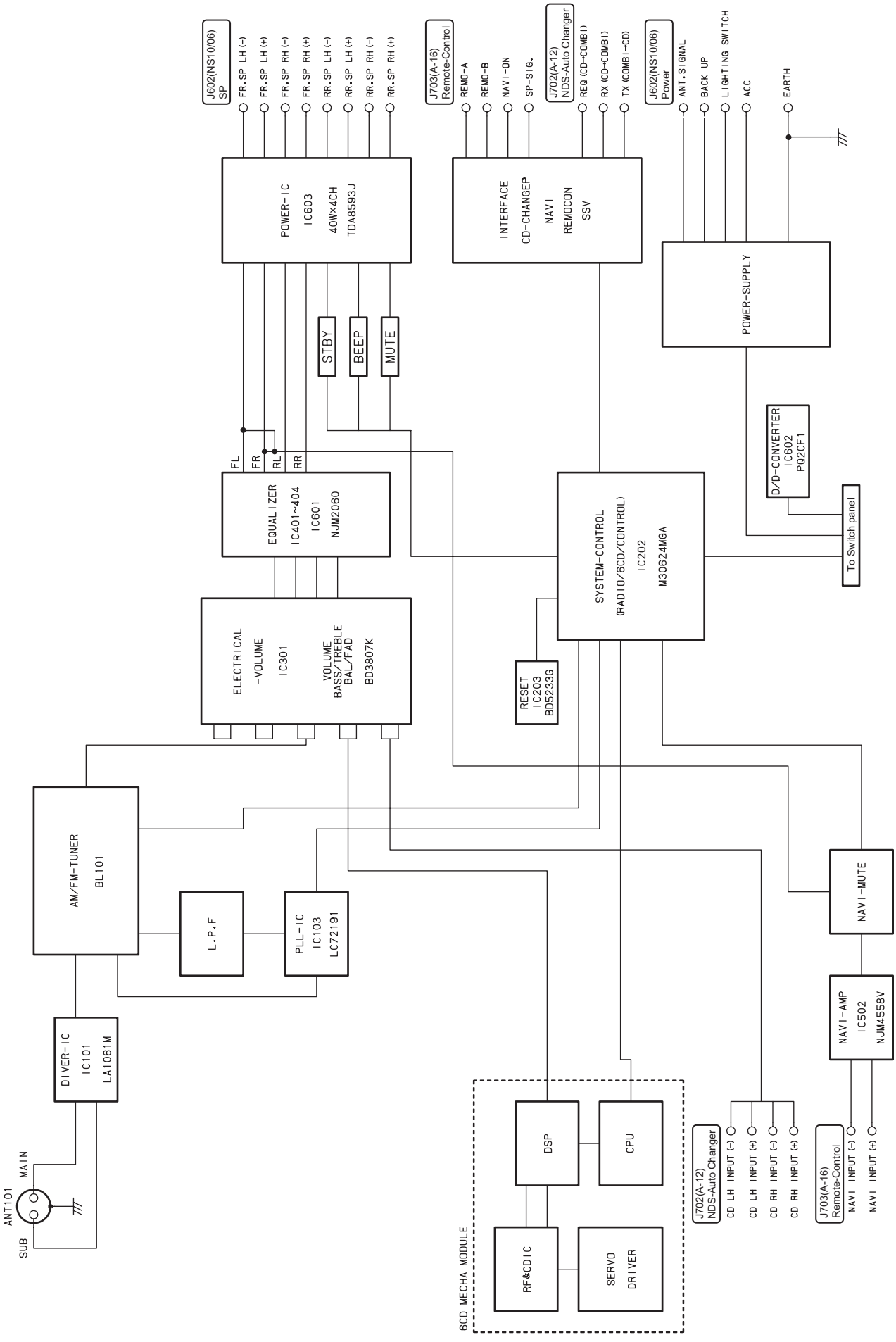
A-12 MW
(NDS-Auto changer)



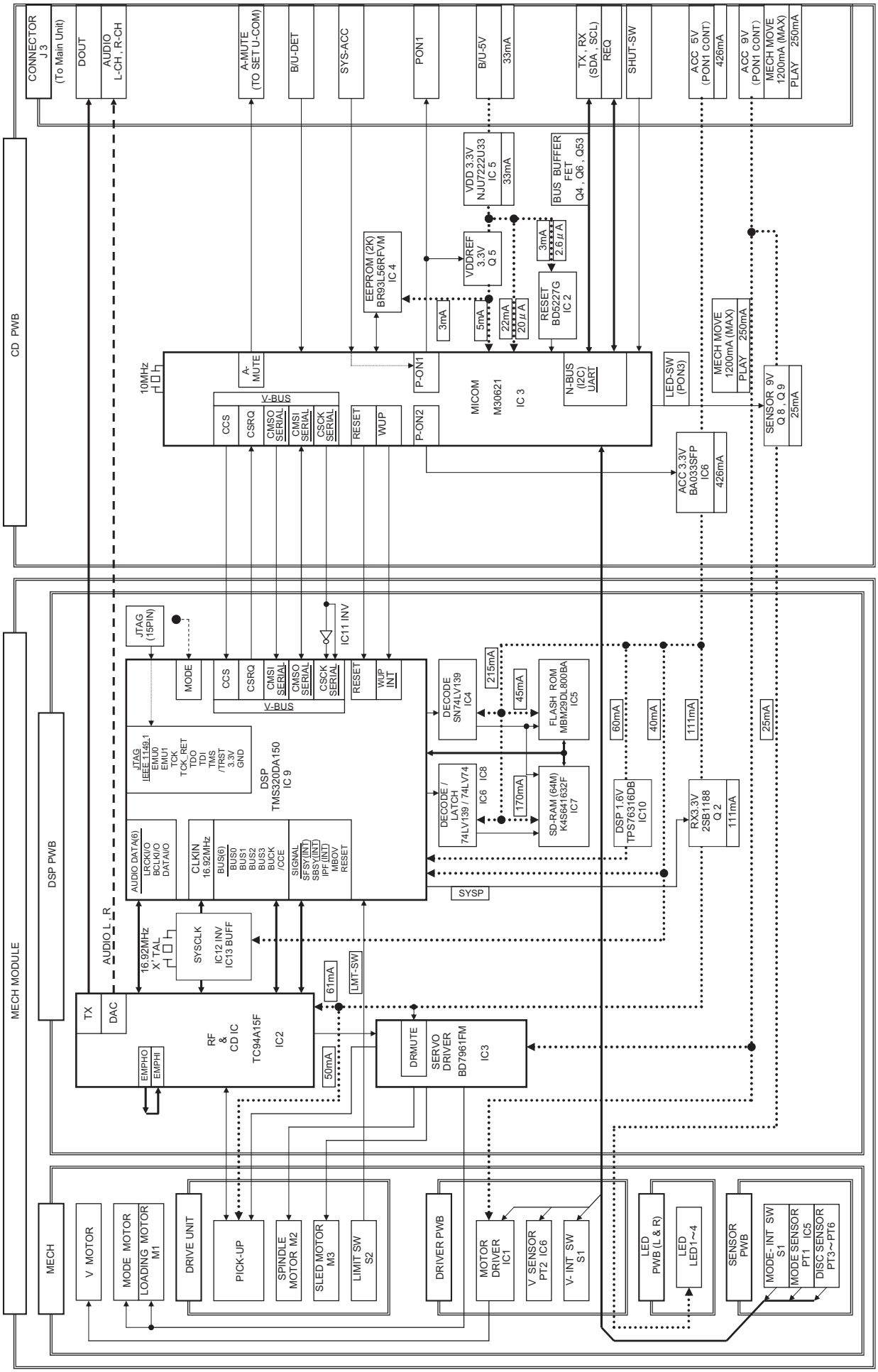
V01	CD Lch(-)	V07	N.C.
V02	CD Lch(+)	V08	REQ(CD -> Combi)
V03	CD Rch(-)	V09	RX(CD -> Combi)
V04	CD Rch(+)	V10	TX(Combi -> CD)
V05	GND	V11	N.C.
V06	Sheild-GND	V12	N.C.

BLOCK DIAGRAM

Main section



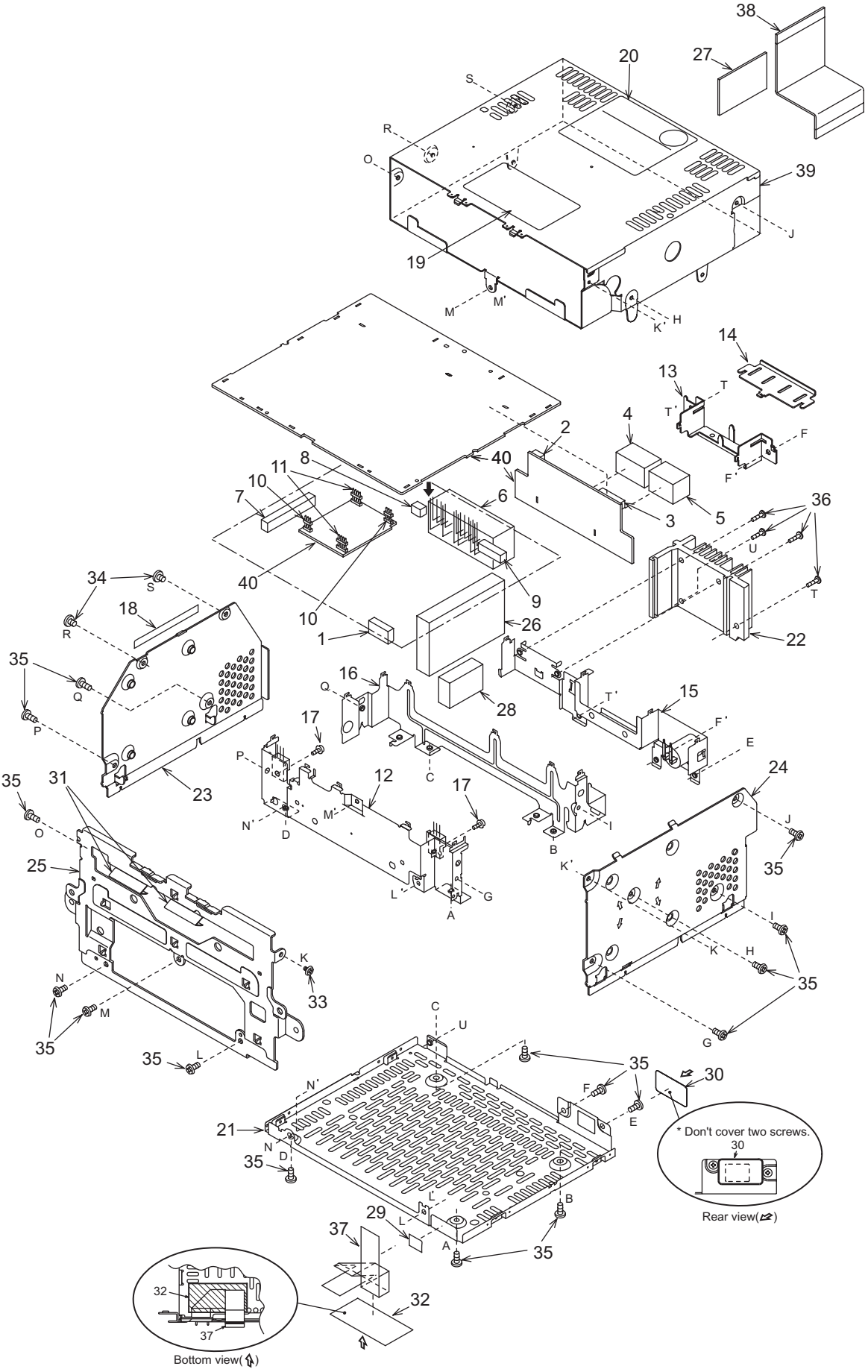
CD changer module section



PP-2664D-A
PP-2664D-B

EXPLODED VIEW / PARTS LIST

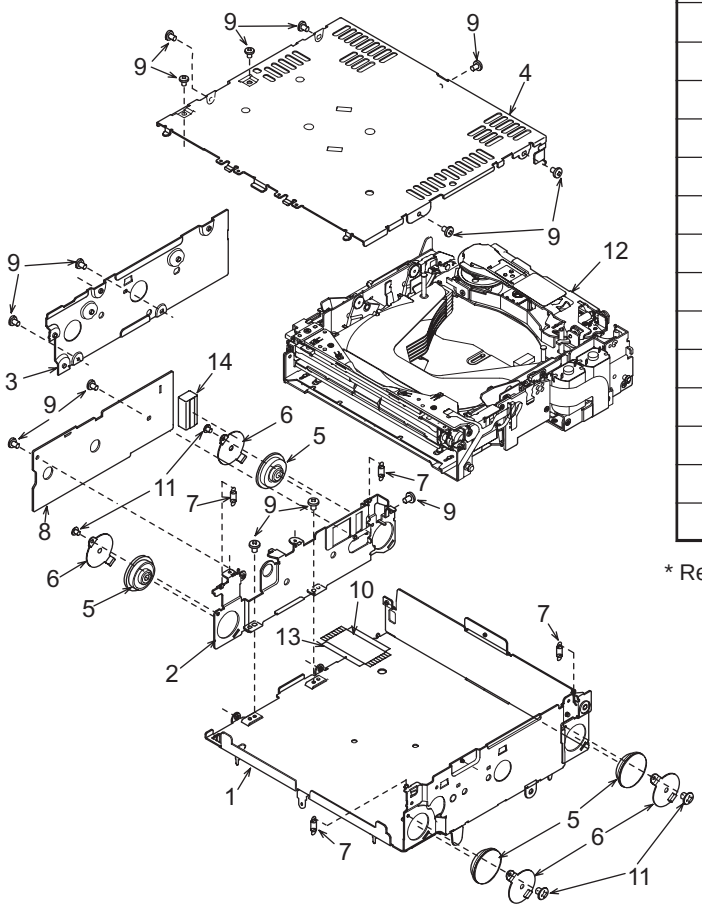
Main section



NO.	PART NO.	DESCRIPTION	Q'TY
1	074-0834-12	OUTLET SOCKET(SW PANEL)	1
2	074-0898-06	OUTLET SOCKET(6P)	1
3	074-0898-18	OUTLET SOCKET(18P)	1
4	074-1013-30	OUTLET SOCKET(A-12)	1
5	074-1087-12	OUTLET SOCKET(A-16)	1
6	074-1141-00	OUTLET SOCKET(NS10/06)	1
7	074-1192-20	OUTLET SOCKET(20P)	1
8	076-0368-06	PLUG(6P)	1
9	076-0368-18	PLUG(18P)	1
10	076-0655-03	PLUG(3P)	2
11	076-0655-04	PLUG(4P)	2
12	309-0806-01	FRONT PLATE	1
13	331-3478-01	OUTLET HOLDER	1
14	331-3479-01	OUTLET HOLDER	1
15	331-3885-10	REAR PLATE	1
16	331-3886-00	MECH-BRKT	1
17	716-1494-00	IT SCREW	2
18	285-1967-00	GUIDE LABEL	1
19	285-1968-00	GUIDE LABEL	1
20	286-6515-00 286-6515-02	SETPLATE(PP2664DA) SETPLATE(PP2664DB)	1 1

NO.	PART NO.	DESCRIPTION	Q'TY
21	311-1897-00	LOWER CASE	1
22	313-1911-00	HEAT SINK	1
23	331-3258-02	SIDE CASE(L)	1
24	331-3259-02	SIDE CASE(R)	1
25	331-3887-00	ES-PLATE	1
26	880-1921U	TUNER PACK	1
27	335-6788-00	MOLDED PART	1
28	345-5806-00	EMC-GASKET	1
29	347-3072-00	PAPER PART	1
30	347-6623-00	SPACER	1
31	347-6910-00	PROTECTOR	2
32	347-7429-00	PROTECT SHEET	1
33	714-2004-87	MACHINE SCREW(M2x4)	1
34	714-2603-80	MACHINE SCREW(M2.6x3)	2
35	714-2605-81	MACHINE SCREW(M2.6x5)	16
36	714-2612-89	MACHINE SCREW(M2.6x12)	4
37	816-5000-00	FLAT WIRE(SW PANEL)	1
38	816-4007-00	FLAT WIRE(CD)	1
39	929-0195-83	CD-CHANG-MODULE	1
40	----------	MAIN PWB	1

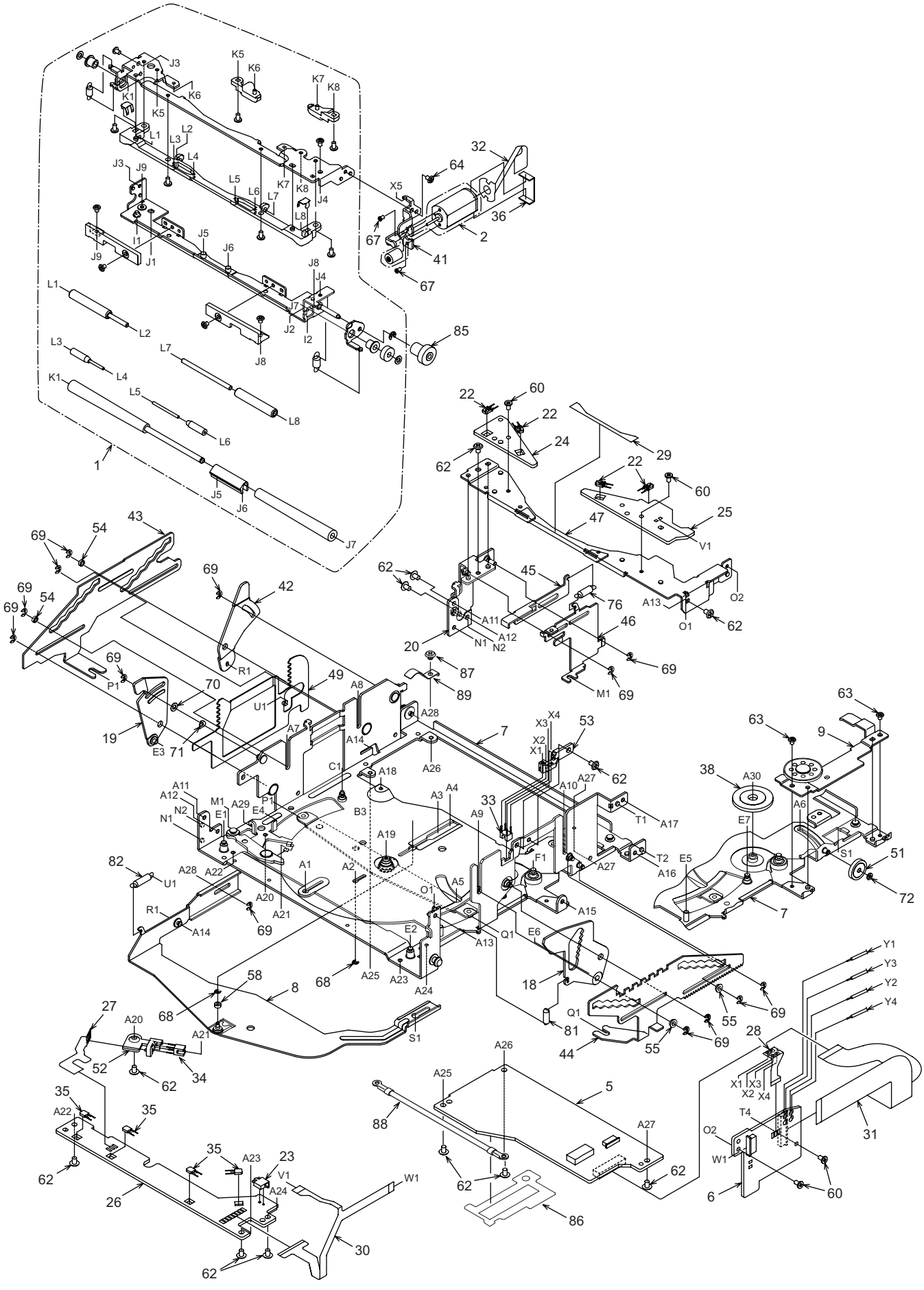
CD changer module section

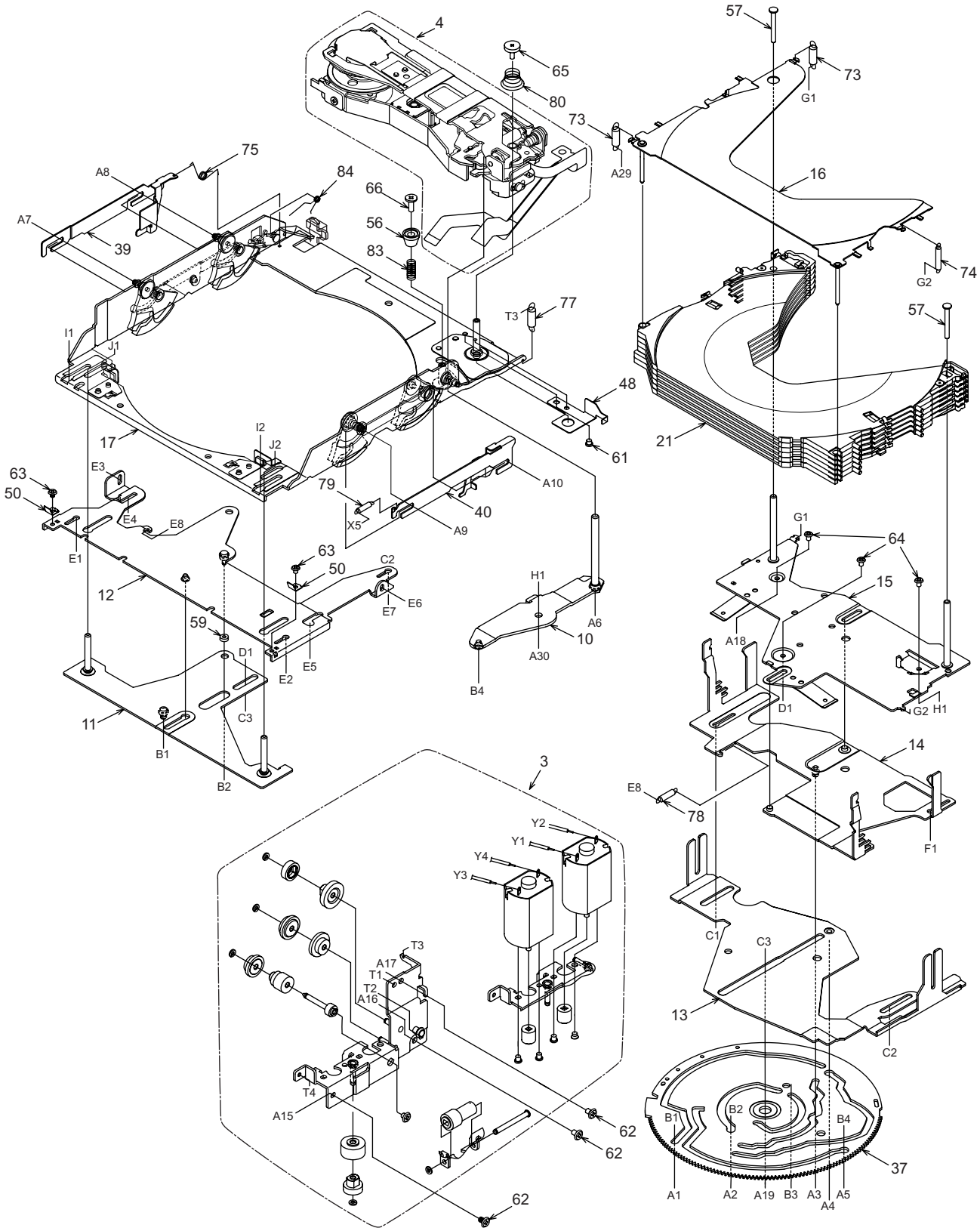


NO.	PART NO.	DESCRIPTION	Q'TY
1	311-1837-25	LOWER CASE	1
2	331-3896-22	PWB-HOLDER	1
3	305-0334-21	SIDE CASE	1
4	310-1741-27	UPPER CASE	1
5	629-0083-01	DAMPER	4
6	620-1086-20	DAMPER-H-PLT	4
7	750-3491-00	FL-SPRING	4
8	----------	CD PWB	1
9	716-1716-00	SCREW(M2x3)	14
10	039-1957-01	FPC	1
11	716-3450-00	SCREW(M1.7x2)	4
12	----------	CD CHANGER MECHANISM	1
13	347-6619-00	INSULATOR	1
14	345-8748-00	GASKET	1

* Refer to the following page about CD changer mechanism(No.12).

CD Changer mechanism section
(CD changer module)





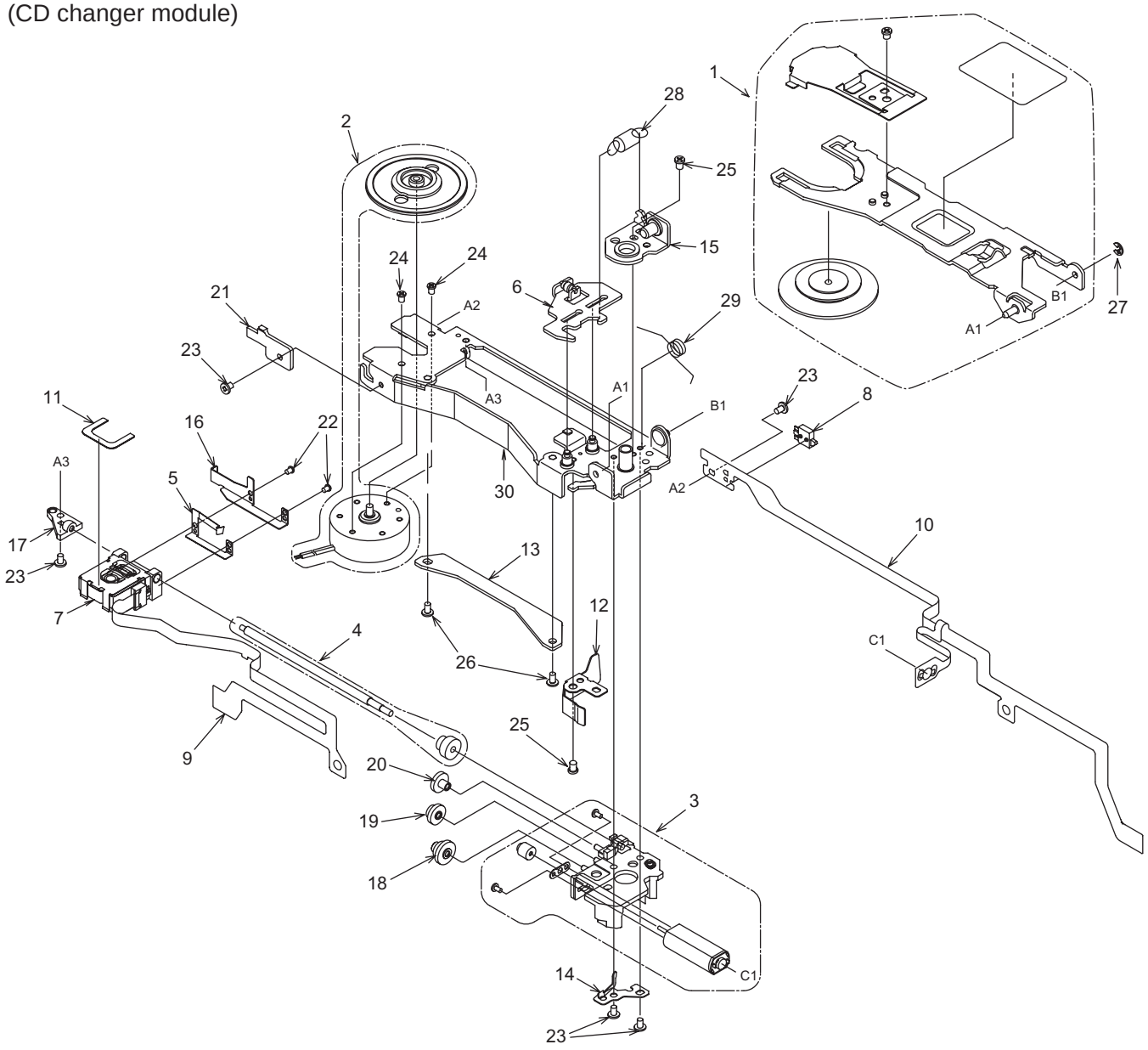
PP-2664D-A
PP-2664D-B

CD Changer mechanism section

(CD changer module)

NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-521-100	LOADING UNIT	1
2	SMA-186-100	LOADING MOTOR ASSY	1
3	HBS-530-100	MOTOR PLATE SUB ASSY	1
4	HBS-531-103	DRIVE UNIT	1
5	----------	DSP PWB	1
6	----------	DRIVER PWB	1
7	966-0597-25	CHASSIS ASSY	1
8	966-0600-23	LOCK-P-RE-ASSY	1
9	966-0601-21	M-GEAR-P-ASSY	1
10	966-0602-24	DR-LINK-ASSY	1
11	966-0603-21	MODE-P-ASSY	1
12	966-0604-24	LOCK-PF-ASSY	1
13	966-0605-20	SHIFT-P-ASSY	1
14	966-0606-23	HLC-PLATE-ASSY	1
15	966-0607-26	COV-OLATE-ASSY	1
16	HBS-535-100	TOP-PLATE-ASSY	1
17	966-0652-22	DR-BASE-P-ASSY	1
18	966-0615-21	LOCK-L-RF-ASSY	1
19	966-0616-20	LOCK-L-LF-ASSY	1
20	966-0618-21	EJECT-B-ASSY	1
21	966-0624-27	DISC-HOL-ASSY	1
22	001-7042-00	DIODE (GL4800)	4
23	013-7414-50	DETECTOR SWITCH	1
24	----------	LED-L-PWB	1
25	----------	LED-R-PWB	1
26	----------	SENSOR PWB	1
27	039-2009-00	PIM-FPC (WITHOUT COMPONENT)	1
28	039-2010-00	PIV-FPC (WITHOUT COMPONENT)	1
29	039-2011-01	LED-FPC	1
30	039-2012-00	SENSOR-FPC	1
31	039-2013-02	MOS-FPC	1
32	039-2014-01	L-MOTOR-FPC (WITHOUT COMPONENT)	1
33	051-5806-01	IC (GPIS93)	1
34	051-5806-02	IC (GPIS95)	1
35	060-0252-01	PHOTO-TR	4
36	347-6657-01	LO-COVER SHEET	1
37	620-1041-25	GEAR PLATE	1
38	620-1042-20	M-GEAR-H	1
39	620-1056-22	HLR-PLATE-L	1
40	620-1580-20	HLR-PLATE-R	1
41	620-1576-20	LO-MOTOR-PLT	1
42	620-1066-20	LOCK LINK-LR	1
43	620-1067-21	SLIDE PLATE-L	1
44	620-1068-22	SLIDE PLATE-R	1
45	620-1071-21	EJECT ARM	1
46	620-1072-20	EJECT PLATE	1
47	620-1577-20	FRONT PLATE	1
48	620-1083-20	FPC-PLATE	1
49	620-1090-20	GAP PLATE	1
50	620-1568-20	RATTLE PLATE-F	2
51	621-0640-20	V-GEAR-G	1
52	621-0641-21	PI-HOLDER-M	1
53	621-0656-21	PI-HOLDER-V	1
54	622-1622-00	SL-G-ROLLER	2
55	622-1623-00	SL-G-ROLLER-R	2
56	622-1648-02	DU-STP-SLEEVE	1
57	622-1650-23	COV-PLATE PIN-B	2
58	622-1651-00	LOCK-RE-ROLLER	1
59	622-1652-00	LOCK-PF-ROLLER	1
60	716-1866-00	SCREW(M1.7x3)	4
61	716-1873-00	SCREW(M2x1.6)	1
62	716-3449-00	SCREW(M2x3)	15
63	716-3450-00	SCREW(M1.7x2)	4
64	716-3451-00	SCREW(M1.7x2.5)	4
65	716-3459-00	SCREW(M1.7x5)	1
66	716-3466-02	SCREW(M2x6)	1
67	738-1422-11	PRECISION SCREW	2
68	743-1200-10	E-RING	2
69	743-1500-10	E-RING	13
70	746-0624-00	WASHER	1
71	746-0712-23	WASHER	1
72	746-0761-00	WASHER	1
73	750-3478-01	TOP-P-SP-L	2
74	750-3479-01	TOP-P-SP-R	1
75	750-3480-01	DR-LOCK-SP	1
76	750-3483-00	EJECT-A-SPRING	1
77	750-3484-01	DR-BASE-SPRING	1
78	750-3485-01	TENSION-SP-L	1
79	750-3486-01	LO-TENSION-SP	1
80	750-3489-01	DRIVE-P-SPRING	1
81	750-3496-00	GAP-P-SPRING R	1
82	750-3497-00	GAP-P-SPRING L	1
83	750-6711-01	DU-STP-SPRING	1
84	750-6712-01	DR-LOCK-SP-B	1
85	621-0651-22	LOAD GEAR-A	1
86	347-6974-22	FPC COVER	1
87	716-1850-01	SCREW	1
88	854-4348-01	EXTENSION LEAD	1
89	620-1604-20	DR-PLATE-SCREW	1

Drive unit section
(CD changer module)



NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-532-100	CLAMPER SUB ASSY	1
2	SMA-185-101	SPINDLE MOTOR ASSY	1
3	SMA-191-100	SLED MOTOR ASSY	1
4	HBS-515-101	LS-ASSY	1
5	620-1587-83	SH-SP-PLT	1
6	966-0622-24	D-SHIFT-P-ASSY	1
7	969-0011-00	PICK UP-ASSY	1
8	013-7414-50	DETECT SWITCH	1
9	039-2015-01	P/U-FPC	1
10	039-2016-02	M/S-FPC (WITHOUT COMPONENT)	1
11	347-6632-00	PU-SHEET	1
12	620-1078-20	PUSH PLATE	1
13	620-1080-22	PU-GUIDE PLATE	1
14	620-1081-20	SCREW PUSH-PLT	1
15	966-0650-20	SPRING PLT ASSY	1

NO.	PART NO.	DESCRIPTION	Q'TY
16	620-1730-81	SCREW-HOL-PLT	1
17	621-0670-20	LS-HOLDER-L	1
18	621-0673-20	D-GEAR A	1
19	621-0674-20	D-GEAR B	1
20	621-0675-20	D-GEAR C	1
21	621-0683-21	DU-STOPPER	1
22	716-3511-00	SCREW(M1.4x3)	2
23	716-3470-00	SCREW(M1.7x3)	5
24	738-1720-17	PRECISION SCREW	2
25	738-2025-17	PRECISION SCREW	2
26	716-3474-00	SCREW(M1.7x3)	2
27	743-1500-20	E-RING	1
28	750-3487-00	SHIFT-P-SPRING	1
29	750-3504-00	CLAMP-A-SPRING	1
30	966-0649-02	DRIVE PLT-ASSY	1

ELECTRICAL PARTS LIST

Main PWB section(B1)

REF No.	PART No.	DESCRIPTION
BL101	880-1921U	TUNER PACK
C101	166-1511-50	150pF CH
C102	166-4701-50	47pF CH
C103	166-4701-50	47pF CH
C104	178-1542-78	0.15uF
C105	168-1032-55	0.01uF K
C106	168-1032-55	0.01uF K
C107	178-1052-78	1uF
C108	163-1063-35	16V10uF
C109	168-3322-55	3300pF K
C110	168-1022-55	1000pF K
C111	168-4732-78	0.047uF K
C112	166-1501-50	15pF CH
C114	168-1022-55	1000pF K
C115	168-1022-55	1000pF K
C116	166-2201-50	22pF CH
C117	187-1073-37	16V100uF
C118	178-1052-78	1uF
C119	166-1201-50	12pF CH
C121	166-1007-50	10pF CH
C122	166-1011-50	100pF CH
C123	188-1073-28	10V 100uF
C124	043-0277-51	0.022uF
C125	168-1042-78	16V 0.1uF
C126	188-1073-28	10V 100uF
C127	168-1042-78	16V 0.1uF
C128	168-1042-78	16V 0.1uF
C129	188-1073-28	10V 100uF
C130	178-1052-78	1uF
C131	168-1232-55	0.012uF K
C133	043-0277-51	0.022uF
C134	188-4763-38	16V 47uF
C135	042-1458-90	50V 1uF LN
C138	168-1022-55	1000pF K
C140	168-2232-55	0.022uF K
C141	188-4763-38	16V 47uF
C142	168-3932-78	0.039uF K
C143	166-1011-50	100pF CH
C144	166-1011-50	100pF CH
C145	166-1011-50	100pF CH
C146	166-1011-50	100pF CH
C147	168-3932-78	0.039uF K
C148	166-1801-50	18pF CH
C149	178-3332-78	0.033uF
C150	178-3332-78	0.033uF
C151	166-1501-50	15pF CH
C152	168-4722-55	4700pF K
C153	168-1042-78	16V 0.1uF
C154	166-1011-50	100pF CH
C155	166-1011-50	100pF CH
C201	168-2232-55	0.022uF K
C210	163-4763-15	6.3V47uF
C211	168-1042-78	16V 0.1uF
C212	168-2222-55	2200pF K
C213	168-1022-55	1000pF K
C214	168-1032-55	0.01uF K
C215	168-1042-78	16V 0.1uF
C216	168-2222-55	2200pF K
C217	168-2222-55	2200pF K
C218	168-2222-55	2200pF K
C219	168-2222-55	2200pF K
C301	163-1063-35	16V10uF
C302	178-4742-78	0.47uF
C303	178-4742-78	0.47uF
C305	178-1052-78	1uF
C306	178-1052-78	1uF
C307	178-1052-78	1uF
C308	178-1052-78	1uF
C314	168-1042-78	16V 0.1uF
C315	166-2211-50	220pF CH
C316	178-1542-78	0.15uF
C317	163-1063-35	16V10uF
C318	166-2211-50	220pF CH
C319	178-1542-78	0.15uF
C320	042-0592-58	16V 10uF
C321	042-0592-58	16V 10uF

REF No.	PART No.	DESCRIPTION
C322	042-0592-58	16V 10uF
C323	042-0592-58	16V 10uF
C328	178-1052-78	1uF
C329	178-1052-78	1uF
C330	043-0548-50	2.2uF
C331	043-0548-50	2.2uF
C332	178-4742-78	0.47uF
C333	178-4742-78	0.47uF
C401	168-5612-55	560pF Z
C402	168-6812-55	680pF K
C403	168-6812-55	680pF K
C404	168-5612-55	560pF Z
C405	166-2201-50	22pF CH
C406	166-2201-50	22pF CH
C407	166-2201-50	22pF CH
C408	166-2201-50	22pF CH
C409	168-2222-55	2200pF K
C410	168-2222-55	2200pF K
C411	168-8222-55	8200pF K
C412	168-8222-55	8200pF K
C413	166-2201-50	22pF CH
C414	166-2201-50	22pF CH
C415	166-2201-50	22pF CH
C416	166-2201-50	22pF CH
C417	178-3942-78	0.39uF
C418	178-3942-78	0.39uF
C419	178-3942-78	0.39uF
C420	178-3942-78	0.39uF
C421	043-0309-91	10V 0.82uF
		(PP2664DA)
	178-5642-78	0.56uF(PP2664DB)
C422	043-0309-91	10V 0.82uF
		(PP2664DA)
	178-5642-78	0.56uF(PP2664DB)
C423	166-2201-50	22pF CH
C424	166-2201-50	22pF CH
C425	166-2201-50	22pF CH
C426	166-2201-50	22pF CH
C427	168-2232-55	0.022uF K
C428	168-2232-55	0.022uF K
C429	168-1232-55	0.012uF K
C430	168-1232-55	0.012uF K
C431	168-1232-55	0.012uF K
C432	168-1232-55	0.012uF K
C433	178-1542-78	0.15uF(PP2664DA)
	178-2222-78	2200pF(PP2664DB)
C434	178-2742-78	0.27uF(PP2664DA)
	043-0309-91	10V 0.82uF
		(PP2664DB)
C435	178-2742-78	0.27uF(PP2664DA)
	043-0309-91	10V 0.82uF
		(PP2664DB)
C436	178-1542-78	0.15uF(PP2664DA)
	178-2222-78	2200pF(PP2664DB)
C437	178-1242-78	0.12uF(PP2664DA)
	178-6822-78	6800pF(PP2664DB)
C438	178-1542-78	0.15uF(PP2664DA)
	178-5632-78	0.056uF(PP2664DB)
C439	178-1542-78	0.15uF(PP2664DA)
	178-5632-78	0.056uF(PP2664DB)
C440	178-1242-78	0.12uF(PP2664DA)
	178-6822-78	6800pF(PP2664DB)
C441	166-2201-50	22pF CH
C442	166-2201-50	22pF CH
C443	166-2201-50	22pF CH
C444	166-2201-50	22pF CH
C445	166-2201-50	22pF CH
C446	166-2201-50	22pF CH
C447	166-2201-50	22pF CH
C448	166-2201-50	22pF CH
C449	168-8222-55	8200pF K
		(PP2664DA)
	168-6822-55	6800pF K
		(PP2664DB)
C450	168-2232-55	0.022uF K
		(PP2664DA)

REF No.	PART No.	DESCRIPTION
	168-1232-55	0.012uF K
		(PP2664DB)
C451	168-2232-55	0.022uF K
		(PP2664DA)
	168-1232-55	0.012uF K
		(PP2664DB)
C452	168-8222-55	8200pF K
		(PP2664DA)
	168-6822-55	6800pF K
		(PP2664DB)
C453	168-3932-78	0.039uF K
		(PP2664DA)
	168-1832-55	0.018uF K
		(PP2664DB)
C454	178-3942-78	0.39uF(PP2664DA)
	178-1522-78	1500pF(PP2664DB)
C455	178-3942-78	0.39uF(PP2664DA)
	178-1522-78	1500pF(PP2664DB)
C456	168-3932-78	0.039uF K
		(PP2664DA)
	168-1832-55	0.018uF K
		(PP2664DB)
C457	168-1042-78	16V 0.1uF
C513	119-0000-05	1/10W 0 ohm JW
C514	168-1042-78	16V 0.1uF
C516	166-1011-50	100pF CH
C517	119-0000-05	1/10W 0 ohm JW
C519	166-1011-50	100pF CH
C601	163-1073-35	16V100uF
C602	168-1042-78	16V 0.1uF
C603	168-4732-78	0.047uF K
		(PP2664DA)
	168-5632-78	16V 0.056uF
		(PP2664DB)
C604	168-4732-78	0.047uF K
		(PP2664DA)
	168-5632-78	16V 0.056uF
		(PP2664DB)
C605	168-8232-78	0.082uF K
		(PP2664DA)
	168-6832-78	0.068uF K
		(PP2664DB)
C606	168-8232-78	0.082uF K
		(PP2664DA)
	168-6832-78	0.068uF K
		(PP2664DB)
C607	178-3342-78	0.33uF
C608	042-9138-00	35V 560uF
C609	168-4732-78	0.047uF K
		(PP2664DA)
	168-5632-78	16V 0.056uF
		(PP2664DB)
C610	168-8232-78	0.082uF K
		(PP2664DA)
	168-6832-78	0.068uF K
		(PP2664DB)
C611	166-2201-50	22pF CH
C612	166-2201-50	22pF CH
C613	168-4732-78	0.047uF K
C614	166-2201-50	22pF CH
C615	166-2201-50	22pF CH
C616	168-4732-78	0.047uF K
		(PP2664DA)
	168-5632-78	16V 0.056uF
		(PP2664DB)
C617	168-8232-78	0.082uF K
		(PP2664DA)
	168-6832-78	0.068uF K
		(PP2664DB)
C618	168-1022-55	1000pF K
C620	178-8232-78	0.082uF
C621	178-8232-78	0.082uF
C622	178-8232-78	0.082uF
C623	178-8232-78	0.082uF
C624	042-0667-00	16V 470uF M
C625	168-1042-78	16V 0.1uF

REF No.	PART No.	DESCRIPTION
C626	042-0592-61	16V 47uF
C627	168-1042-78	16V 0.1uF
C628	168-1042-78	16V 0.1uF
C629	163-1073-35	16V100uF
C630	168-6822-55	6800pF K
C631	042-0592-58	16V 10uF
C632	163-1073-35	16V100uF
C633	163-2273-25	10V 220uF
C634	168-2232-55	0.022uF K
C635	166-2201-50	22pF CH
C636	163-2263-35	16V22uF
C637	168-2232-55	0.022uF K
C638	163-3343-65	50V 0.33uF
C639	166-4701-50	47pF CH
C640	168-6822-55	6800pF K
C641	163-1073-35	16V100uF
C642	168-1042-78	16V 0.1uF
C643	163-1073-35	16V100uF
C644	172-1041-15	0.1uF
C645	042-1465-00	16V 3300uF
C651	042-0423-21	10V 22uF
C655	168-1042-78	16V 0.1uF
C657	168-2222-55	2200pF K
C658	168-1042-78	16V 0.1uF
C659	163-1073-35	16V100uF
C660	188-1053-68	50V 1uF
C665	166-1511-50	150pF CH
C666	166-1511-50	150pF CH
C667	166-1511-50	150pF CH
C668	166-1511-50	150pF CH
C671	168-6822-55	6800pF K
C672	178-2242-38	0.22uF B
C673	178-2242-38	0.22uF B
C681	168-2232-55	0.022uF K
C682	168-2232-55	0.022uF K
C683	168-2232-55	0.022uF K
C684	168-2232-55	0.022uF K
C685	168-2232-55	0.022uF K
C686	168-2232-55	0.022uF K
C687	168-2232-55	0.022uF K
C688	168-2232-55	0.022uF K
C701	042-1562-17	16V 10uF
C702	042-1562-17	16V 10uF
C703	042-1562-17	16V 10uF
C704	042-1562-17	16V 10uF
C706	168-1032-55	0.01uF K
C708	168-1022-55	1000pF K
C709	168-1022-55	1000pF K
C713	168-1022-55	1000pF K
C714	168-2232-55	0.022uF K
C717	188-1066-38	16V 10uF NP
C718	188-1066-38	16V 10uF NP
D101	001-9008-90	1SV250
D102	001-9008-90	1SV250
D201	001-0516-90	MA111
D202	001-0529-48	MA8091-H
D203	001-0529-48	MA8091-H
D204	001-0529-48	MA8091-H
D205	001-0529-48	MA8091-H
D206	001-0529-48	MA8091-H
D501	001-0516-90	MA111
D601	001-0347-33	MA4056H
D603	001-2407-90	SFPB-74V
D605	001-0516-90	MA111
D606	001-0504-49	HZS9 C3L
D607	001-0504-49	HZS9 C3L
D608	001-0529-34	MA8062-L
D611	001-0516-90	MA111
D612	001-0466-90	S5688B
D613	001-2015-00	RL253
D614	001-0466-90	S5688B
D615	001-0466-90	S5688B
D671	001-0529-32	MA8056-M
D703	001-0466-90	S5688B
D704	001-0516-90	MA111
D705	001-0516-90	MA111
D707	001-4305-39	UDZSTE-17 36B
IC101	051-4617-90	LA1061M-TE-L
IC102	051-3020-90	NJM4565V
IC103	051-6212-08	LC72191JM-TLM

REF No.	PART No.	DESCRIPTION
IC202	052-3161-50	M30624MGA-600GP
IC203	051-5436-38	BD5233G-TR
IC301	051-5037-90	BD3807K
IC401	051-3019-90	NJM2060V
IC402	051-3019-90	NJM2060V
IC403	051-3019-90	NJM2060V
IC404	051-3019-90	NJM2060V
IC502	051-3020-90	NJM4565V
IC601	051-3019-90	NJM2060V
IC602	051-3290-00	PQ2CF1
IC603	051-2055-00	TDA8593J/N3
IC604	051-3020-90	NJM4565V
IC605	051-5441-08	BD4828G-TR
IC606	051-3341-90	BD3931FP
J203	074-0834-12	12P
J205	074-1192-20	OUTLET SOCKET
J602	074-1141-00	NS10+6
J702	074-1013-30	OUTLET SOCKET (A12MW)
J703	074-1087-12	OUTLET SOCKET
L101	010-2198-65	0.1uH
L102	010-2198-53	5.6uH
L103	010-2312-52	0.27uH
L104	010-2003-04	30uH
L105	010-6009-76	22uH
L202	010-3407-66	NLV32 22uH J
L203	010-3407-66	NLV32 22uH J
L601	010-8030-00	100uH
P101	076-0368-06	PLUG 6P
P102	076-0368-18	PLUG 18P
P401	076-0655-04	PLUG 4P
P402	076-0655-03	PLUG 3P
P403	076-0655-03	PLUG 3P
P404	076-0655-04	PLUG 4P
P701	074-0898-06	SOCKET 6P
P702	074-0898-18	SOCKET 18P
Q101	192-4116-00	2SC4116
Q102	192-4116-00	2SC4116
Q103	125-2026-91	UN5211
Q104	125-2026-91	UN5211
Q105	125-2026-91	UN5211
Q106	125-2026-91	UN5211
Q107	192-4116-51	2SC4116 G,L
Q109	192-4116-51	2SC4116 G,L
Q110	190-1162-00	2SA1162
Q111	190-1162-00	2SA1162
Q201	125-2026-92	UN5212
Q204	125-9017-92	UMD3N-TR
Q205	192-4116-00	2SC4116
Q206	125-0020-91	UN5111
Q207	125-2026-91	UN5211
Q209	192-4116-00	2SC4116
Q504	125-2026-91	UN5211
Q505	125-2026-91	UN5211
Q506	191-0709-00	2SB709A Q,R,S
Q601	103-2012-00	2SD2012
Q606	191-1214-00	2SB1214
Q607	192-2712-51	2SC2712 G,L
Q608	193-1259-50	2SD1259DS R,Q
Q609	125-9017-92	UMD3N-TR
Q610	193-2118-00	2SD2118F5 Q,R,S
Q611	192-4116-00	2SC4116
Q612	125-9017-92	UMD3N-TR
Q615	190-1298-00	2SA1298
Q616	125-2026-91	UN5211
Q617	125-2026-95	UN521N
Q618	131-1188-00	2SB1188
Q671	193-2118-00	2SD2118F5 Q,R,S
Q672	125-9017-92	UMD3N-TR
Q704	125-2026-91	UN5211
Q705	125-2026-91	UN5211
Q706	125-0020-91	UN5111
Q709	192-4116-00	2SC4116
Q710	192-4116-00	2SC4116
Q714	192-4116-00	2SC4116
R2	119-0000-05	1/10W 0 ohm JW
R3	119-0000-05	1/10W 0 ohm JW
R101	119-1041-15	1/10W 100k ohm
R102	119-1041-15	1/10W 100k ohm
R103	119-2731-15	1/10W 27k ohm

REF No.	PART No.	DESCRIPTION
R104	119-2731-15	1/10W 27k ohm
R105	119-1041-15	1/10W 100k ohm
R106	119-1041-15	1/10W 100k ohm
R107	119-1031-15	1/10W 10k ohm
R108	119-1031-15	1/10W 10k ohm
R109	119-5631-15	1/10W 56k ohm
R110	119-3911-15	1/10W 390 ohm
R111	119-4731-15	1/10W 47k ohm
R112	119-1021-15	1/10W 1k ohm
R113	119-1031-15	1/10W 10k ohm
R114	119-1031-15	1/10W 10k ohm
R115	119-1011-15	1/10W 100 ohm
R116	119-4741-15	1/10W 470k ohm
R117	119-1021-15	1/10W 1k ohm
R118	119-1021-15	1/10W 1k ohm
R121	119-1841-15	1/10W 180k ohm
R122	119-2221-15	1/10W 2.2k ohm
R123	119-0000-05	1/10W 0 ohm JW
R124	119-4721-15	1/10W 4.7k ohm
R125	119-1021-15	1/10W 1k ohm
R126	119-2221-15	1/10W 2.2k ohm
R127	119-4721-15	1/10W 4.7k ohm
R128	119-3321-15	1/10W 3.3k ohm
R129	119-1001-15	1/10W 10 ohm
R130	119-1501-15	1/10W 15 ohm
R131	119-2221-15	1/10W 2.2k ohm
R132	119-2221-15	1/10W 2.2k ohm
R133	119-1021-15	1/10W 1k ohm
R134	119-1031-15	1/10W 10k ohm
R135	119-1021-15	1/10W 1k ohm
R136	119-1021-15	1/10W 1k ohm
R137	119-1031-15	1/10W 10k ohm
R138	119-4721-15	1/10W 4.7k ohm
R139	119-4721-15	1/10W 4.7k ohm
R140	119-2221-15	1/10W 2.2k ohm
R141	119-1021-15	1/10W 1k ohm
R142	119-2701-15	1/10W 27 ohm
R143	119-4731-15	1/10W 47k ohm
R206	119-4721-15	1/10W 4.7k ohm
R207	119-4721-15	1/10W 4.7k ohm
R209	119-4731-15	1/10W 47k ohm
R210	119-4731-15	1/10W 47k ohm
R211	119-4731-15	1/10W 47k ohm
R212	119-4731-15	1/10W 47k ohm
R213	119-1011-15	1/10W 100 ohm
R214	119-1011-15	1/10W 100 ohm
R217	119-4721-15	1/10W 4.7k ohm
R219	119-4731-15	1/10W 47k ohm
R220	119-4731-15	1/10W 47k ohm
R221	119-3311-15	1/10W 330 ohm
R222	119-1021-15	1/10W 1k ohm
R223	119-1021-15	1/10W 1k ohm
R224	119-1031-15	1/10W 10k ohm
R225	119-1021-15	1/10W 1k ohm
R226	119-1031-15	1/10W 10k ohm
R227	119-3311-15	1/10W 330 ohm
R228	119-4731-15	1/10W 47k ohm
R229	119-4731-15	1/10W 47k ohm
R230	119-1521-15	1/10W 1.5k ohm
R231	119-2231-15	1/10W 22k ohm
R232	119-3311-15	1/10W 330 ohm
R236	119-2231-15	1/10W 22k ohm
R238	119-4731-15	1/10W 47k ohm
R239	119-4731-15	1/10W 47k ohm
R240	119-1021-15	1/10W 1k ohm
R241	119-4731-15	1/10W 47k ohm
R242	119-4731-15	1/10W 47k ohm
R243	119-4731-15	1/10W 47k ohm
R244	119-4731-15	1/10W 47k ohm
R245	119-4731-15	1/10W 47k ohm
R246	119-1041-15	1/10W 100k ohm
R247	119-4731-15	1/10W 47k ohm
R248	116-2211-15	1/4W 220 ohm
R249	119-1041-15	1/10W 100k ohm
R250	119-4741-15	1/10W 470k ohm
R251	119-4741-15	1/10W 470k ohm
R252	119-1031-15	1/10W 10k ohm
R253	119-4731-15	1/10W 47k ohm
R254	119-5631-15	1/10W 56k ohm
R255	119-0000-05	1/10W 0 ohm JW

REF No.	PART No.	DESCRIPTION
R258	119-1021-15	1/10W 1k ohm
R260	119-4731-15	1/10W 47k ohm
R261	119-1021-15	1/10W 1k ohm
R263	119-1021-15	1/10W 1k ohm
R264	119-1021-15	1/10W 1k ohm
R265	119-1021-15	1/10W 1k ohm
R266	119-1021-15	1/10W 1k ohm
R267	119-1021-15	1/10W 1k ohm
R268	119-1021-15	1/10W 1k ohm
R269	119-4731-15	1/10W 47k ohm
R301	032-0106-64	1/8W 56k ohm D
R302	032-0106-64	1/8W 56k ohm D
R303	032-0106-64	1/8W 56k ohm D
R304	032-0106-64	1/8W 56k ohm D
R311	119-3331-15	1/10W 33k ohm
R312	119-1241-15	1/10W 120k ohm
R313	119-4721-15	1/10W 4.7k ohm
R314	119-1241-15	1/10W 120k ohm
R315	119-4721-15	1/10W 4.7k ohm
R401	119-2731-15	1/10W 27k ohm
		(PP2664DA)
	119-2231-15	1/10W 22k ohm
		(PP2664DB)
R402	119-2731-15	1/10W 27k ohm
		(PP2664DA)
	119-2231-15	1/10W 22k ohm
		(PP2664DB)
R403	119-3331-15	1/10W 33k ohm
		(PP2664DA)
	119-1831-15	1/10W 18k ohm
		(PP2664DB)
R404	119-3331-15	1/10W 33k ohm
		(PP2664DA)
	119-1831-15	1/10W 18k ohm
		(PP2664DB)
R405	119-3331-15	1/10W 33k ohm
R406	119-3331-15	1/10W 33k ohm
R407	119-3331-15	1/10W 33k ohm
R408	119-3331-15	1/10W 33k ohm
R409	119-2731-15	1/10W 27k ohm
R410	119-1831-15	1/10W 18k ohm
R411	119-1831-15	1/10W 18k ohm
R412	119-2731-15	1/10W 27k ohm
R413	119-1031-15	1/10W 10k ohm
R414	119-1031-15	1/10W 10k ohm
R415	119-4721-15	1/10W 4.7k ohm
R416	119-4721-15	1/10W 4.7k ohm
R417	119-1831-15	1/10W 18k ohm
R418	119-1831-15	1/10W 18k ohm
R419	119-7521-15	1/10W 7.5k ohm
R420	119-7521-15	1/10W 7.5k ohm
R421	119-4721-15	1/10W 4.7k ohm
R422	119-4721-15	1/10W 4.7k ohm
R423	119-1031-15	1/10W 10k ohm
R424	119-1031-15	1/10W 10k ohm
R425	119-2221-15	1/10W 2.2k ohm
R428	119-2221-15	1/10W 2.2k ohm
R429	119-2221-15	1/10W 2.2k ohm
R432	119-2221-15	1/10W 2.2k ohm
R433	119-3621-15	1/10W 3.6k ohm
		(PP2664DA)
	119-3921-15	1/10W 3.9k ohm
		(PP2664DB)
R434	119-3621-15	1/10W 3.6k ohm
		(PP2664DA)
	119-3921-15	1/10W 3.9k ohm
		(PP2664DB)
R437	119-5611-15	1/10W 560 ohm
R438	119-5611-15	1/10W 560 ohm
R439	119-4731-15	1/10W 47k ohm
R440	119-4731-15	1/10W 47k ohm
R441	119-4731-15	1/10W 47k ohm
R442	119-4731-15	1/10W 47k ohm
R443	119-5611-15	1/10W 560 ohm
R444	119-5611-15	1/10W 560 ohm
R445	119-3321-15	1/10W 3.3k ohm
R446	119-3321-15	1/10W 3.3k ohm
R449	119-3621-15	1/10W 3.6k ohm
		(PP2664DA)
	119-2721-15	1/10W 2.7k ohm
		(PP2664DB)
R450	119-2021-15	1/10W 2k ohm
		(PP2664DA)
	119-8211-15	1/10W 820 ohm
		(PP2664DB)
R451	119-2021-15	1/10W 2k ohm
		(PP2664DA)
	119-8211-15	1/10W 820 ohm
		(PP2664DB)
R452	119-3621-15	1/10W 3.6k ohm
		(PP2664DA)
	119-2721-15	1/10W 2.7k ohm
		(PP2664DB)
R453	119-1511-15	1/10W 150 ohm
R454	119-1511-15	1/10W 150 ohm
R455	119-1511-15	1/10W 150 ohm
R456	119-1511-15	1/10W 150 ohm
R457	119-1541-15	1/10W 150k ohm
R458	119-1541-15	1/10W 150k ohm
R459	119-1541-15	1/10W 150k ohm
R460	119-1541-15	1/10W 150k ohm
R461	119-1541-15	1/10W 150k ohm
R462	119-1541-15	1/10W 150k ohm
R463	119-1541-15	1/10W 150k ohm
R464	119-1541-15	1/10W 150k ohm
R465	119-1511-15	1/10W 150 ohm
R466	119-1511-15	1/10W 150 ohm
R467	119-1511-15	1/10W 150 ohm
R468	119-1511-15	1/10W 150 ohm
R469	119-2221-15	1/10W 2.2k ohm
R470	119-9111-15	1/10W 910 ohm
		(PP2664DA)
	119-8221-15	1/10W 8.2k ohm
		(PP2664DB)
R471	119-9111-15	1/10W 910 ohm
		(PP2664DA)
	119-8221-15	1/10W 8.2k ohm
		(PP2664DB)
R472	119-2221-15	1/10W 2.2k ohm
R516	119-4731-15	1/10W 47k ohm
R519	119-1021-15	1/10W 1k ohm
R520	119-2231-15	1/10W 22k ohm
R522	032-0140-51	1/10W 15k ohm F
R524	032-0140-51	1/10W 15k ohm F
R525	032-0140-50	1/10W 10k ohm F
R526	032-0140-50	1/10W 10k ohm F
R601	116-3311-15	1/4W 330 ohm
R603	114-1001-21	2W 10 ohm
R605	119-5131-15	1/10W 51k ohm
		(PP2664DA)
	119-4731-15	1/10W 47k ohm
		(PP2664DB)
R606	119-5131-15	1/10W 51k ohm
		(PP2664DA)
	119-4731-15	1/10W 47k ohm
		(PP2664DB)
R607	119-7521-15	1/10W 7.5k ohm
		(PP2664DA)
	119-8221-15	1/10W 8.2k ohm
		(PP2664DB)
R608	119-7521-15	1/10W 7.5k ohm
		(PP2664DA)
	119-8221-15	1/10W 8.2k ohm
		(PP2664DB)
R609	032-0140-54	1/10W 22k ohm F
R610	032-0140-62	1/10W 1k ohm F
R611	119-1031-15	1/10W 10k ohm
R612	119-1031-15	1/10W 10k ohm
R613	119-5131-15	1/10W 51k ohm
R614	119-5131-15	1/10W 51k ohm
R615	119-1021-15	1/10W 1k ohm
R616	119-5131-15	1/10W 51k ohm
R617	119-5131-15	1/10W 51k ohm
R618	119-1031-15	1/10W 10k ohm
R619	119-1031-15	1/10W 10k ohm
R620	119-7521-15	1/10W 7.5k ohm
		(PP2664DA)
	119-8221-15	1/10W 8.2k ohm
		(PP2664DB)
R621	119-7521-15	1/10W 7.5k ohm
		(PP2664DA)
	119-8221-15	1/10W 8.2k ohm
		(PP2664DB)
R622	119-5131-15	1/10W 51k ohm
		(PP2664DA)
	119-4731-15	1/10W 47k ohm
		(PP2664DB)
R623	119-5131-15	1/10W 51k ohm
		(PP2664DA)
	119-4731-15	1/10W 47k ohm
		(PP2664DB)
R626	116-2221-15	1/4W 2.2k ohm
R627	116-2221-15	1/4W 2.2k ohm
R628	119-2231-15	1/10W 22k ohm
R629	119-1031-15	1/10W 10k ohm
R630	119-1021-15	1/10W 1k ohm
R633	119-4731-15	1/10W 47k ohm
R634	119-4731-15	1/10W 47k ohm
R635	119-1031-15	1/10W 10k ohm
R636	119-4731-15	1/10W 47k ohm
R637	116-2211-15	1/4W 220 ohm
R638	119-1041-15	1/10W 100k ohm
R639	119-1231-15	1/10W 12k ohm
R640	119-2231-15	1/10W 22k ohm
R641	119-2231-15	1/10W 22k ohm
R642	119-2231-15	1/10W 22k ohm
R643	119-2231-15	1/10W 22k ohm
R644	032-0140-16	1/10W18ohm F
R645	032-0106-65	1/8W 100k ohm D
R646	116-3911-15	1/4W 390 ohm
R647	119-1041-15	1/10W 100k ohm
R648	119-5611-15	1/10W 560 ohm
R649	119-1031-15	1/10W 10k ohm
R653	119-3321-15	1/10W 3.3k ohm
R654	119-1031-15	1/10W 10k ohm
R655	119-1031-15	1/10W 10k ohm
R656	116-1221-15	1/4W 1.2k ohm
R657	116-1091-15	1/4W 1 ohm
R658	116-1531-15	1/4W 15k ohm
R659	116-3331-15	1/4W 33k ohm
R660	116-2721-15	1/4W 2.2k ohm
R661	116-2721-15	1/4W 2.2k ohm
R662	119-2201-15	1/10W 22 ohm
R671	117-2211-15	1/8W 220 ohm
R672	119-1041-15	1/10W 100k ohm
R673	119-4731-15	1/10W 47k ohm
R690	119-1031-15	1/10W 10k ohm
R691	119-1031-15	1/10W 10k ohm
R692	119-1031-15	1/10W 10k ohm
R693	119-1031-15	1/10W 10k ohm
R703	119-3011-15	1/10W 300 ohm
R704	119-3011-15	1/10W 300 ohm
R705	119-1031-15	1/10W 10k ohm
R708	119-3321-15	1/10W 3.3k ohm
R709	119-2231-15	1/10W 22k ohm
R710	119-4731-15	1/10W 47k ohm
R712	119-2231-15	1/10W 22k ohm
R713	119-4731-15	1/10W 47k ohm
R715	119-1031-15	1/10W 10k ohm
R716	119-5631-15	1/10W 56k ohm
R717	119-1031-15	1/10W 10k ohm
R718	119-1031-15	1/10W 10k ohm
R721	119-5631-15	1/10W 56k ohm
R722	119-5631-15	1/10W 56k ohm
R728	119-5621-15	1/10W 5.6k ohm
R730	119-5621-15	1/10W 5.6k ohm
R732	119-3011-15	1/10W 300 ohm
SUP101	060-0122-91	DSP-141N-S00B
SUP102	060-0122-91	DSP-141N-S00B
T601	009-0675-01	CHOKE
TH602	002-0229-90	PTH8L05B
VR101	012-5203-63	470k ohm
VR102	012-5203-56	10k ohm
X101	061-1066-80	7.2MHz
X201	060-1505-50	10MHz
PWB	039-2598-00	PWB(WITHOUT COMPONENT)

CD PWB(B2) section

REF No.	PART No.	DESCRIPTION
C1	168-4735-56	0.047uF Z
C2	168-4735-56	0.047uF Z
C4	168-1222-55	1200pF K
C5	163-2263-35	16V22uF
C6	168-1222-55	1200pF K
C12	168-1222-55	1200pF K
C15	168-1222-55	1200pF K
C16	163-2263-35	16V22uF
C18	168-1045-56	0.1uF Z
C19	166-1011-50	100pF CH
C21	168-1032-55	0.01uF K
C22	168-1045-56	0.1uF Z
C23	168-1045-56	0.1uF Z
C24	168-1032-55	0.01uF K
C25	163-1073-15	6.3V100uF
C26	178-1052-78	1uF
C27	168-1045-56	0.1uF Z
C28	042-0671-01	10V 47uF TA
C29	168-1045-56	0.1uF Z
C30	178-3342-78	0.33uF
C31	042-1673-00	10V 220uF
CCT4	050-0140-55	1/32W 2.2k ohmx4J
CCT5	050-0145-54	1/16W 47k ohm x4
CCT6	050-0145-53	1/16W 220k ohm x4 J
D2	001-2610-90	RB480KTL
IC2	051-5445-08	BD5227G-TR

REF No.	PART No.	DESCRIPTION
IC3	052-5061-01	M30621MCM -4S5GP
IC4	051-9402-78	BR93L56RFVM-W
IC5	051-3332-90	NJU7222U33
IC6	051-3293-90	BA033SFP-E2
J1	074-1189-95	45P
J3	074-1237-70	20P
P1	076-0478-55	PLUG
Q3	190-1162-00	2SA1162
Q4	198-3018-00	2SK3018
Q5	131-1188-50	2SB1188PQR
Q6	198-3018-00	2SK3018
Q7	125-2004-92	RN1402
Q8	125-2004-92	RN1402
Q9	125-0014-92	DTA114EK
Q53	193-0601-00	2SD601A
R2	119-2211-15	1/10W 220 ohm
R4	119-4731-15	1/10W 47k ohm
R8	119-4731-15	1/10W 47k ohm
R10	119-2211-15	1/10W 220 ohm
R13	119-1041-15	1/10W 100k ohm
R14	119-2221-15	1/10W 2.2k ohm
R15	119-1041-15	1/10W 100k ohm
R16	119-1021-15	1/10W 1k ohm
R20	119-4731-15	1/10W 47k ohm
R24	119-4731-15	1/10W 47k ohm
R25	119-1031-15	1/10W 10k ohm

REF No.	PART No.	DESCRIPTION
R26	119-4721-15	1/10W 4.7k ohm
R27	119-1031-15	1/10W 10k ohm
R28	119-1041-15	1/10W 100k ohm
R29	119-1041-15	1/10W 100k ohm
R31	119-4731-15	1/10W 47k ohm
R32	119-0000-05	1/10W 0 ohm JW
R35	119-0000-05	1/10W 0 ohm JW
R36	119-4731-15	1/10W 47k ohm
R37	119-4731-15	1/10W 47k ohm
R38	119-2231-15	1/10W 22k ohm
R39	119-2231-15	1/10W 22k ohm
R40	119-2231-15	1/10W 22k ohm
R41	119-4711-15	1/10W 470 ohm
R42	119-2231-15	1/10W 22k ohm
R43	119-2241-15	1/10W 220k ohm
R60	119-0000-05	1/10W 0 ohm JW
R530	119-4731-15	1/10W 47k ohm
R550	119-4731-15	1/10W 47k ohm
TM1	073-0768-90	TERMINAL
TM2	073-0766-90	TERMINAL
TM4	073-0766-90	TERMINAL
TM5	073-0766-90	TERMINAL
X1	060-1533-90	CSTCE10M0G52-R0
PWB	039-2532-20	PWB(WITHOUT COMPONENT)

DPS PWB(B3) section

REF No.	PART No.	DESCRIPTION
C1	042-0671-01	10V 47uF TA
C2	168-4735-56	0.047uF Z
C3	046-4722-58	4700pF
C4	046-1032-78	0.01uF
C5	168-1045-56	0.1uF Z
C6	042-0671-01	10V 47uF TA
C7	168-1045-56	0.1uF Z
C8	168-1045-56	0.1uF Z
C9	045-1007-50	10pF
C10	168-1045-56	0.1uF Z
C11	045-1007-50	10pF
C12	168-1045-56	0.1uF Z
C13	042-0672-00	25V 47uF TA
C14	168-4735-56	0.047uF Z
C15	168-4735-56	0.047uF Z
C16	168-4735-56	0.047uF Z
C17	178-1052-78	1uF
C18	045-4701-50	47pF
C19	168-1045-56	0.1uF Z
C20	046-4712-58	470pF
C21	046-4712-58	470pF
C22	168-1045-56	0.1uF Z
C23	046-1532-78	0.015uF
C24	168-1045-56	0.1uF Z
C25	046-6822-58	6800pF
C26	046-1032-78	0.01uF
C28	046-1022-58	1000pF
C29	046-3332-78	0.033uF
C32	046-4722-58	4700pF
C33	046-1522-58	1500pF
C34	168-1045-56	0.1uF Z
C35	046-1532-78	0.015uF
C36	168-1045-56	0.1uF Z
C37	168-1045-56	0.1uF Z
C38	042-0671-01	10V 47uF TA
C39	178-1052-78	1uF
C40	045-6801-50	68pF
C41	168-1045-56	0.1uF Z
C42	178-1052-78	1uF
C43	042-0671-01	10V 47uF TA
C44	046-6812-58	680pF
C45	168-1045-56	0.1uF Z
C46	168-1045-56	0.1uF Z
C47	042-0671-01	10V 47uF TA
C48	168-5632-78	16V 0.056uF

REF No.	PART No.	DESCRIPTION
C49	168-1045-56	0.1uF Z
C50	168-1045-56	0.1uF Z
C51	168-1045-56	0.1uF Z
C53	168-1045-56	0.1uF Z
C54	042-0671-01	10V 47uF TA
C56	168-4712-55	470pF K
C57	046-1032-78	0.01uF
C58	168-4712-55	470pF K
C59	168-1045-56	0.1uF Z
C60	168-1045-56	0.1uF Z
C61	046-1032-78	0.01uF
C62	042-0671-01	10V 47uF TA
C63	046-1032-78	0.01uF
C64	168-1045-56	0.1uF Z
C65	045-1201-50	12pF
C66	046-1032-78	0.01uF
C67	046-1032-78	0.01uF
C68	168-1045-56	0.1uF Z
C69	045-1201-50	12pF
C101	046-1032-78	0.01uF
C102	046-1032-78	0.01uF
CCT1	050-0140-68	1/32W 3.3k ohm x4J
CCT4	050-0140-63	1/32W 47k ohm x4J
D1	001-0367-91	1SS226
D2	001-2610-90	RB480KTL
IC2	051-6399-00	TC94A15F
IC3	051-6060-08	BD7961FM-E2
IC4	051-7518-18	SN74LVC139APWR
IC5	052-5062-02	MBM29DL800BA-90PFTN
IC6	051-7518-18	SN74LVC139APWR
IC7	051-9330-00	K4S641632F-TC60
IC8	051-7203-48	SN74LV74APW
IC9	051-6700-00	TMS320DA140 PGE160
IC10	051-3315-90	TPS76316DBVR
IC11	051-7221-58	SN74AHC1G04 HDCKR
IC12	051-7525-08	SN74LVC2GU04 DCKR
IC13	051-7526-08	SN74LVC1G126 DCKR
J1	074-1201-65	15P
J2	074-1138-56	6P
J3	074-1059-76	26P

REF No.	PART No.	DESCRIPTION
J4	074-1189-95	45P
J5	074-1201-60	10P
L2	010-3104-54	MPZ1608S601AT
L3	010-3104-54	MPZ1608S601AT
Q1	131-1188-50	2SB1188PQR
Q2	131-1188-50	2SB1188PQR
Q3	125-2004-92	RN1402
R1	033-1021-15	1/10W 1k ohm
R2	033-1021-15	1/10W 1k ohm
R3	033-3311-15	1/10W 330 ohm
R4	033-2211-15	1/10W 220 ohm
R5	033-2211-15	1/10W 220 ohm
R6	033-1021-15	1/10W 1k ohm
R7	033-1051-15	1/10W 1M ohm
R8	033-0000-05	1/10W 0 ohm
R10	033-5621-15	1/10W 5.6k ohm
R11	033-4731-15	1/10W 47k ohm
R12	119-3341-15	1/10W 330k ohm
R13	033-2231-15	1/10W 22k ohm
R14	033-2231-15	1/10W 22k ohm
R15	117-1001-15	1/8W 10 ohm
R16	033-5631-15	1/10W 56k ohm
R17	033-3331-15	1/10W 33k ohm
R18	033-6831-15	1/10W 68k ohm
R19	033-6831-15	1/10W 68k ohm
R20	033-1011-15	1/10W 100 ohm
R21	116-4711-15	1/4W 470 ohm
R22	117-1811-15	1/8W 180 ohm
R23	116-4711-15	1/4W 470 ohm
R24	033-2231-15	1/10W 22k ohm
R25	033-2231-15	1/10W 22k ohm
R26	033-2231-15	1/10W 22k ohm
R27	033-1011-15	1/10W 100 ohm
R28	033-4731-15	1/10W 47k ohm
R29	033-2231-15	1/10W 22k ohm
R30	033-4721-15	1/10W 4.7k ohm
R31	033-4721-15	1/10W 4.7k ohm
R32	033-4731-15	1/10W 47k ohm
R33	033-4731-15	1/10W 47k ohm
R35	033-4731-15	1/10W 47k ohm
R36	033-3311-15	1/10W 330 ohm
R37	033-4731-15	1/10W 47k ohm
R38	033-3311-15	1/10W 330 ohm
R39	033-2211-15	1/10W 220 ohm
R40	033-1011-15	1/10W 100 ohm

REF No.	PART No.	DESCRIPTION
R41	033-1001-15	1/10W 10 ohm
R42	033-1001-15	1/10W 10 ohm
R45	033-1011-15	1/10W 100 ohm
R46	033-4731-15	1/10W 47k ohm
R47	033-4731-15	1/10W 47k ohm
R48	033-1011-15	1/10W 100 ohm
R49	033-0000-05	1/10W 0 ohm
R50	033-0000-05	1/10W 0 ohm
R51	033-8231-15	1/10W 82k ohm
R52	033-0000-05	1/10W 0 ohm
R53	033-4731-15	1/10W 47k ohm

REF No.	PART No.	DESCRIPTION
R63	033-2231-15	1/10W 22k ohm
R64	033-2231-15	1/10W 22k ohm
R65	033-4731-15	1/10W 47k ohm
R66	033-4731-15	1/10W 47k ohm
R100	033-1011-15	1/10W 100 ohm
R101	033-1011-15	1/10W 100 ohm
R102	033-1011-15	1/10W 100 ohm
R103	033-1011-15	1/10W 100 ohm
R104	033-1011-15	1/10W 100 ohm
R105	033-1011-15	1/10W 100 ohm
R106	033-1011-15	1/10W 100 ohm

REF No.	PART No.	DESCRIPTION
R107	033-4731-15	1/10W 47k ohm
R200	033-1051-15	1/10W 1M ohm
R201	033-1021-15	1/10W 1k ohm
R202	033-1021-15	1/10W 1k ohm
R220	033-4731-15	1/10W 47k ohm
R301	119-2231-15	1/10W 22k ohm
R302	119-3911-15	1/10W 390 ohm
X1	061-3534-90	16.92MHz
PWB	039-2531-20	PWB(WITHOUT COMPONENT)

Sensor PWB(B4) section

REF No.	PART No.	DESCRIPTION
PT3	060-0252-01	PT4850F
PT4	060-0252-01	PT4850F
PT5	060-0252-01	PT4850F
PT6	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
S1	013-7414-50	SPVG22
PWB	039-1956-00	PWB(WITHOUT COMPONENT)

PIM-FPC(B5) section

REF No.	PART No.	DESCRIPTION
IC5	051-5806-02	GPIS95

Driver PWB(B6) section

REF No.	PART No.	DESCRIPTION
C1	168-1045-56	0.1uF
C2	163-1073-35	16V100uF
D1	001-0529-32	MA8056-M
IC1	051-6044-18	BA6920FP-Y

REF No.	PART No.	DESCRIPTION
J1	074-1239-76	26P
J2	074-1100-59	9P
R1	033-1021-15	1/10W 1k ohm
R2	032-0104-59	1/4W 2.2 ohm

REF No.	PART No.	DESCRIPTION
R3	032-0104-59	1/4W 2.2 ohm
S1	013-7412-50	SPVG21
PWB	039-2242-00	PWB(WITHOUT COMPONENT)

PIV-FPC(B7) section

REF No.	PART No.	DESCRIPTION
IC6	051-5806-01	GPIS93

LED-L-PWB(B8) section

REF No.	PART No.	DESCRIPTION
LED3	001-7042-00	GL4800
LED4	001-7042-00	GL4800

REF No.	PART No.	DESCRIPTION
PWB	039-1954-20	PWB(WITHOUT COMPONENT)

LED-R-PWB(B9) section

REF No.	PART No.	DESCRIPTION
LED5	001-7042-00	GL4800
LED6	001-7042-00	GL4800

REF No.	PART No.	DESCRIPTION
PWB	039-1955-20	PWB(WITHOUT COMPONENT)

L-Motor-FPC(B10) section

REF No.	PART No.	DESCRIPTION
M1	SMA-186-100	LOADING

M/S-FPC(B11) section

REF No.	PART No.	DESCRIPTION
M2	SMA-185-101	SPINDLE

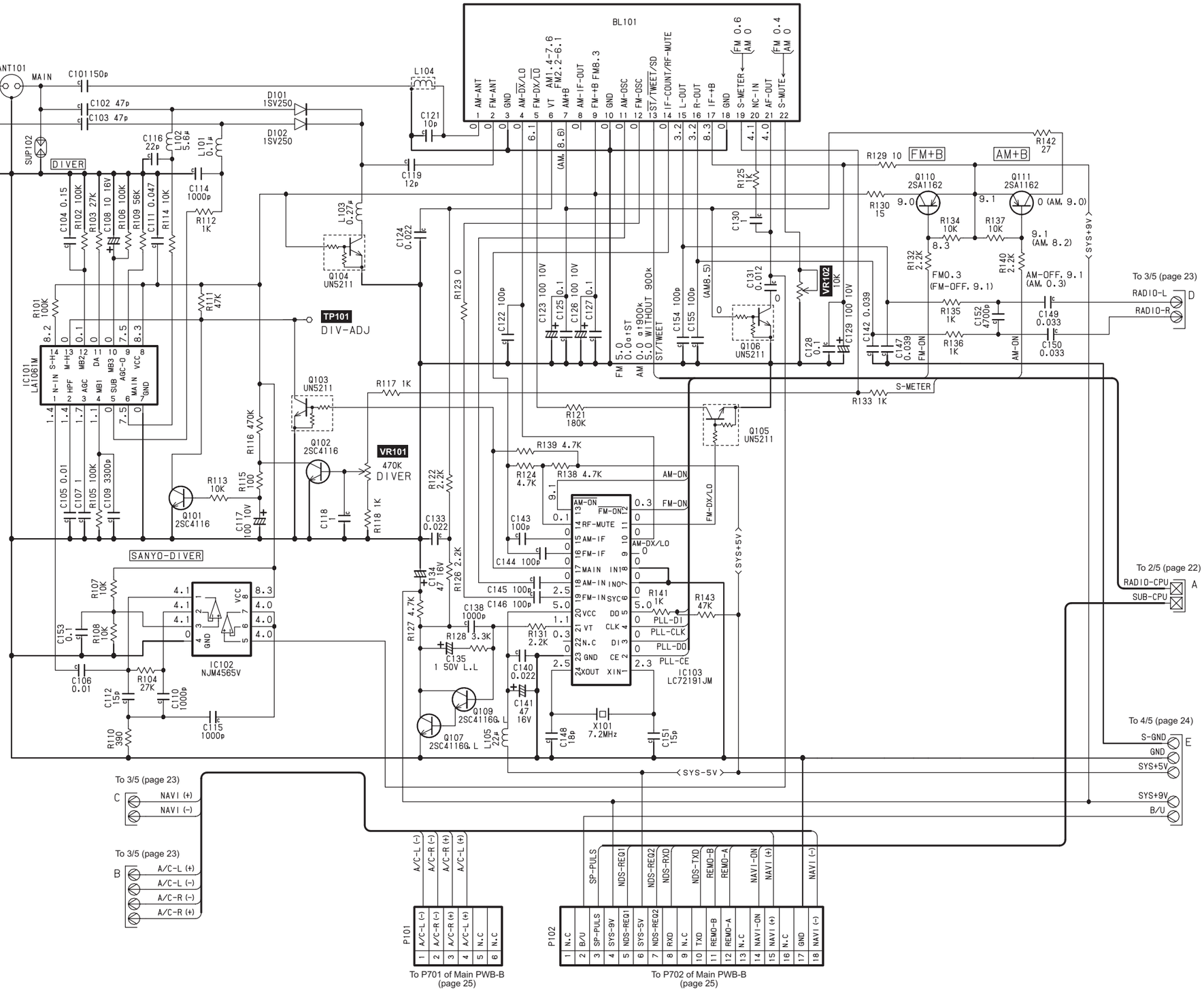
REF No.	PART No.	DESCRIPTION
M3	SMA-191-100	SLED

REF No.	PART No.	DESCRIPTION
S2	013-7414-50	SPVG22

CIRCUIT DIAGRAM

Main PWB(B1) section 1/5

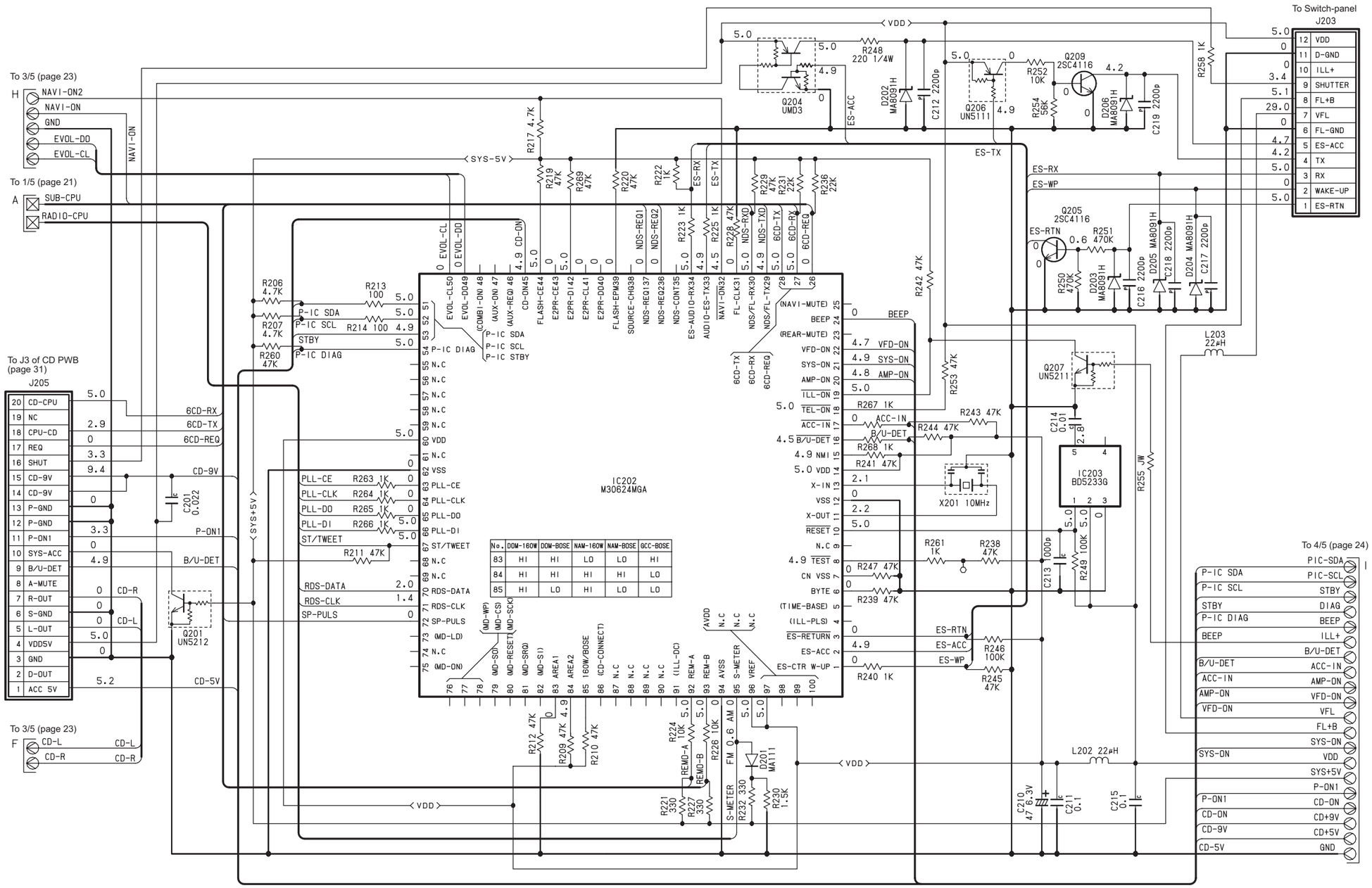
(Tuner block)



PP-2664D-A
PP-2664D-B

Main PWB(B1) section 2/5

(System control block)



PP-2664D-A
PP-2664D-B

Main PWB(B1) section 3/5

(E-Vol,EQ block)

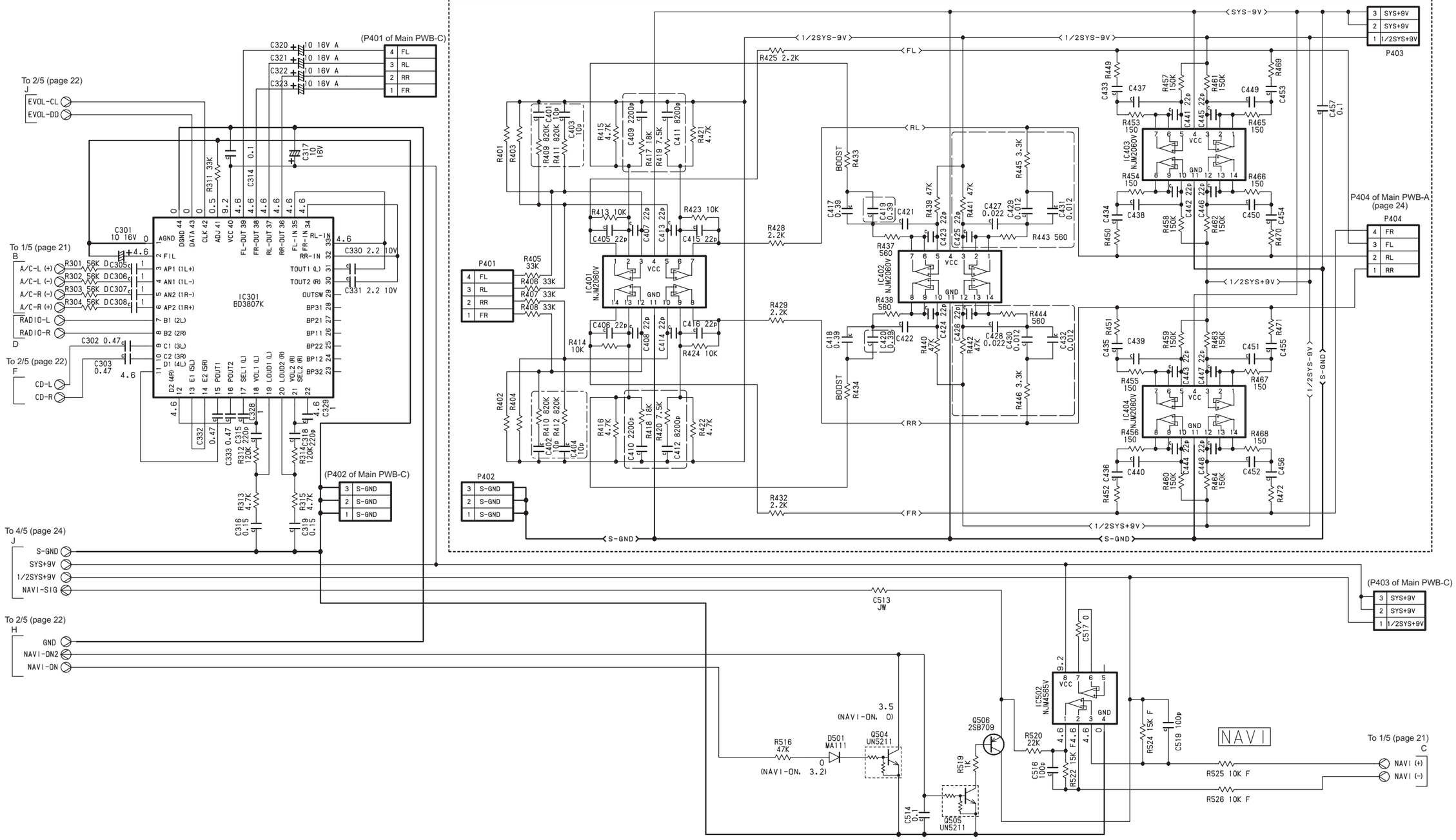
PP-2664D-A

PP-2664D-B

	C421	C422	C433	C434	C435	C436	C437	C438	C439	C440	C449	C450	C451	C452	C453	C454	C455	C456
PP-2664D-A	0.82u	0.82u	0.15u	0.27u	0.27u	0.15u	0.12u	0.15u	0.15u	0.12u	8200p	0.022u	0.022u	8200p	0.039u	0.39u	0.39u	0.039u
PP-2664D-B	0.56u	0.56u	2200p	0.82u	0.82u	2200p	6800p	0.056u	0.056u	6800p	6800p	0.012u	0.012u	6800p	0.018u	1500p	1500p	0.018u

	R401	R402	R403	R404	R433	R434	R449	R450	R451	R452	R470	R471
PP-2664D-A	27K	27K	33K	33K	3.6K	3.6K	3.6K	2K	2K	3.6K	910	910
PP-2664D-B	22K	22K	18K	18K	3.9K	3.9K	2.7K	820	820	2.7K	8.2K	8.2K

Main PWB-C



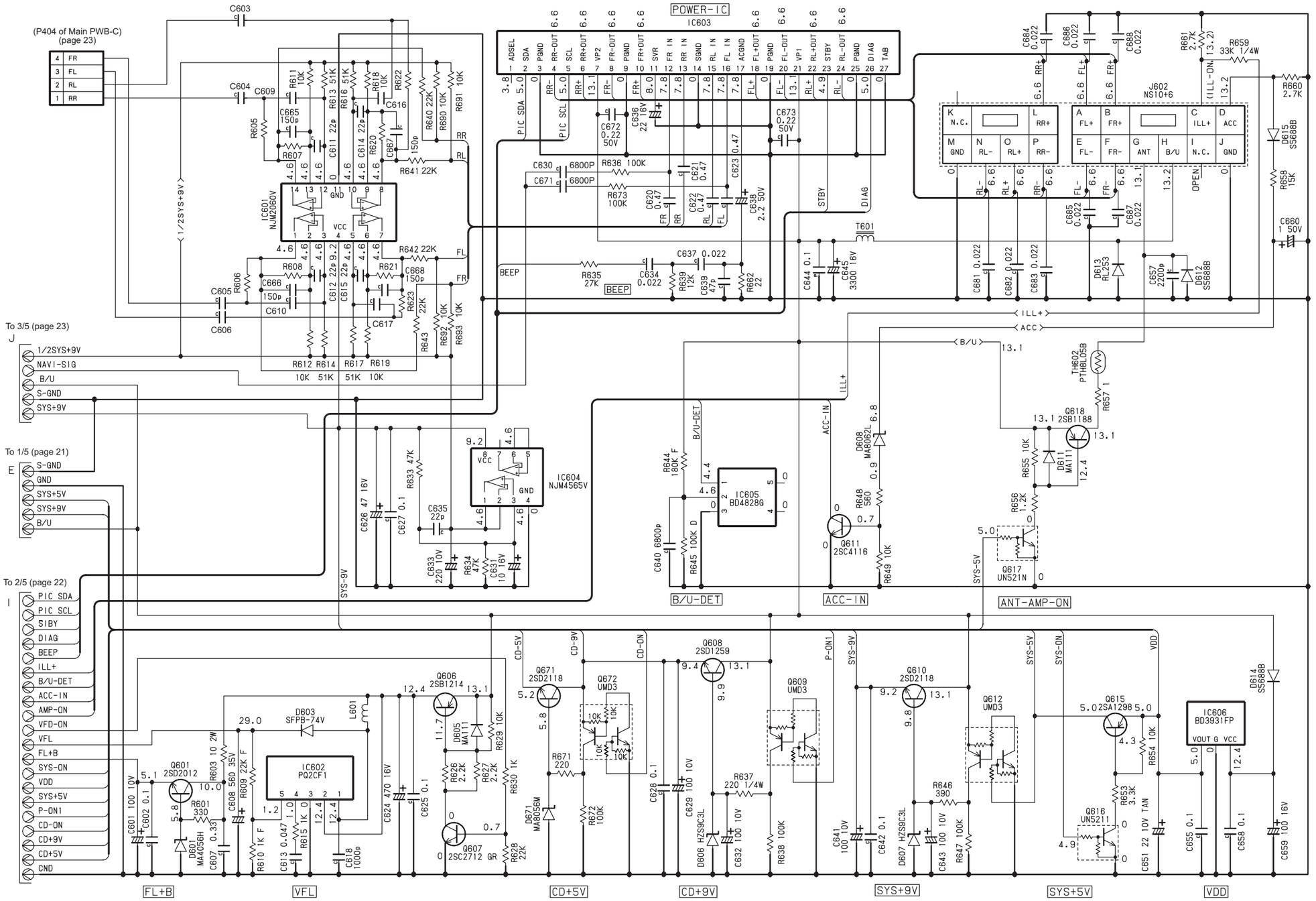
PP-2664D-A
PP-2664D-B

Main PWB(B1) section 4/5

(Power supply,Power block)

	C603	C604	C605	C606	C609	C610	C616	C617
PP-2664D-A	0.047u	0.047u	0.082u	0.082u	0.047u	0.082u	0.047u	0.082u
PP-2664D-B	0.056u	0.056u	0.068u	0.068u	0.056u	0.068u	0.056u	0.068u

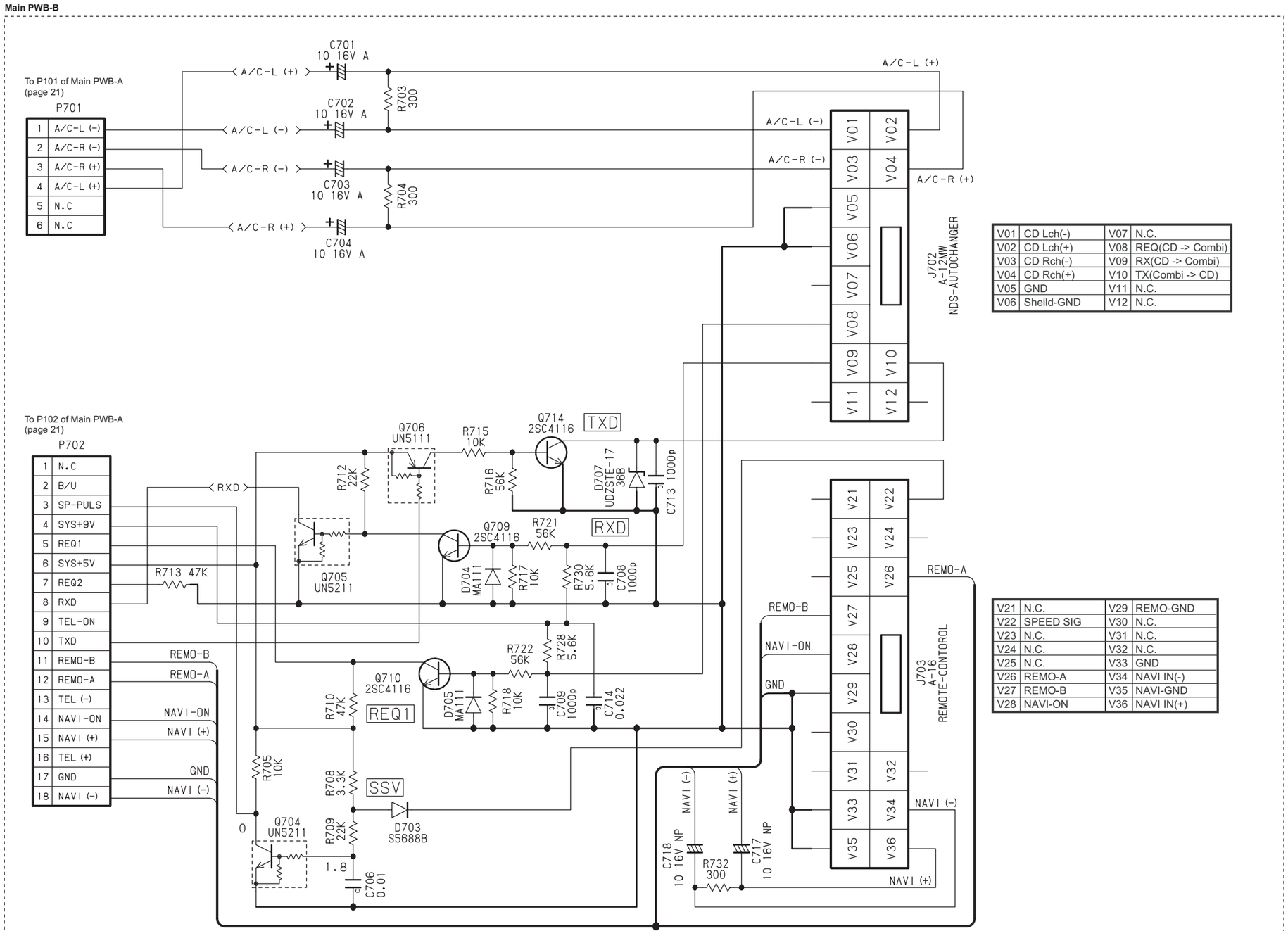
	R605	R606	R607	R608	R620	R621	R622	R623
PP-2664D-A	51k	51k	7.5k	7.5k	7.5k	7.5k	51k	51k
PP-2664D-B	47k	47k	8.2k	8.2k	8.2k	8.2k	47k	47k



PP-2664D-A
PP-2664D-B

Main PWB(B1) section 5/5

(I/F block)



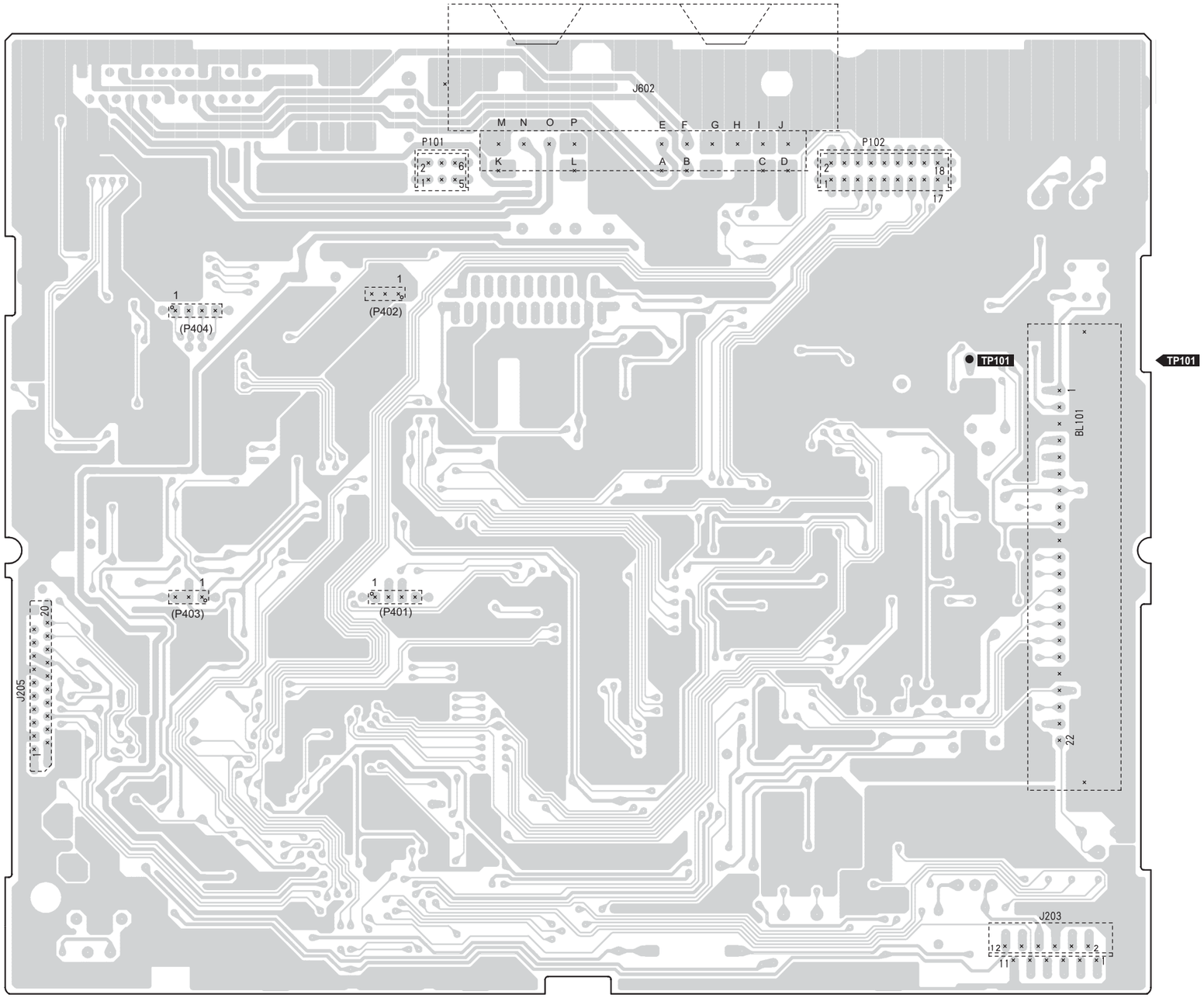
PRINTED WIRING BOAD

Main PWB-A(B1) section 1/2

Caution:

COMPONENT SIDE:
Parts on the component side seen from the component side are indicated.

SOLDER SIDE:
Parts on the solder side seen from the solder side are indicated.



Main PWB-A(B1)

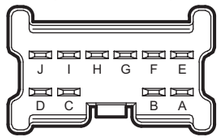
SOLDER SIDE

PP-2664D-A
PP-2664D-B

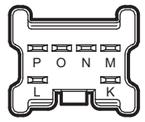
Main PWB-A(B1) section 2/2

A	Front Lch(+)	F	Front Rch(-)
B	Front Rch(+)	G	ANT-ON
C	ILL(+)	H	Back up
D	ACC	I	N.C.
E	Front Lch(-)	J	GND

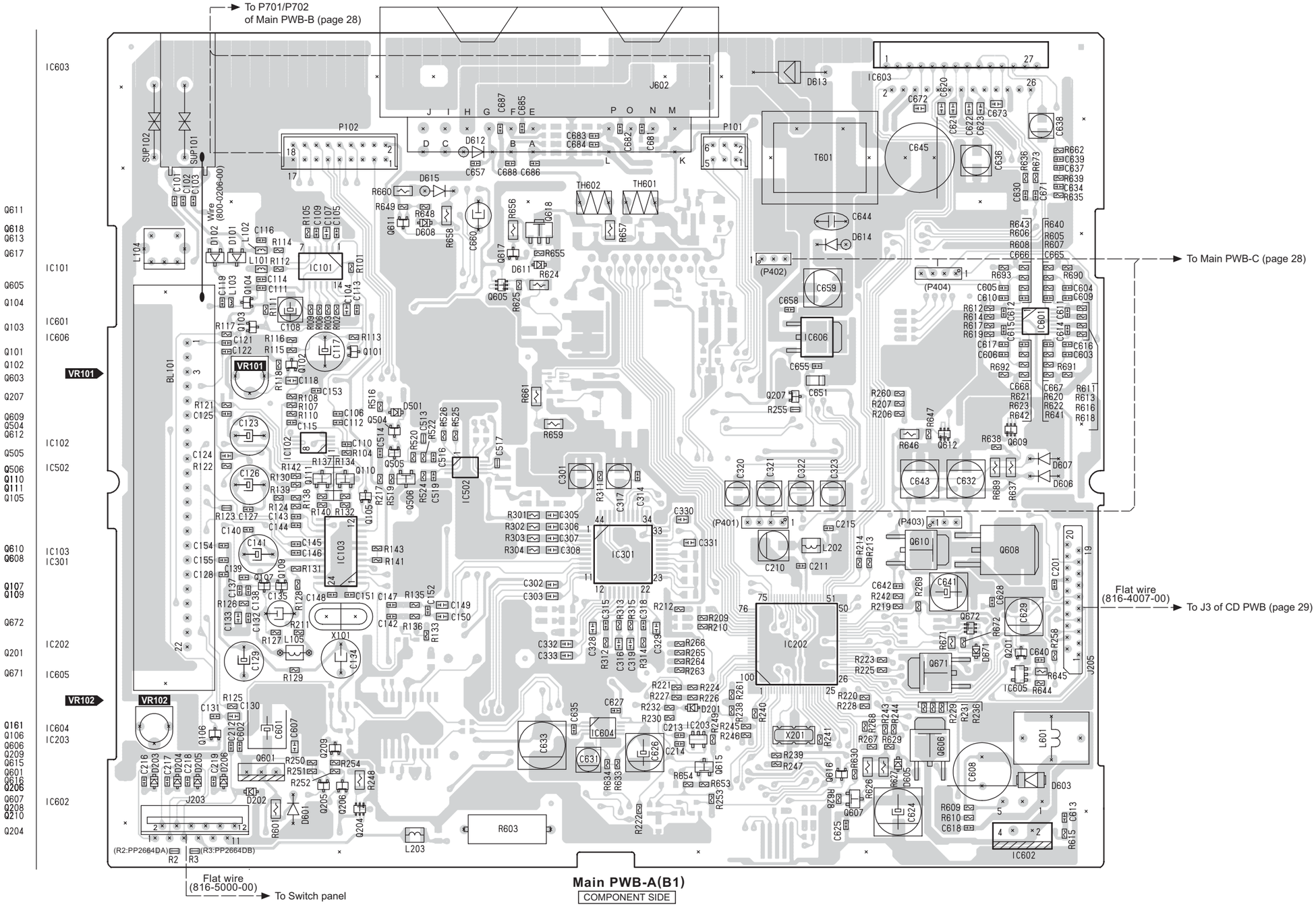
NS10 MW (Power/Front SP)



NS06 MW (Rear SP)



K	N.C.	N	Rear Lch(-)
L	Rear Rch(+)	O	Rear Lch(+)
M	GND	P	Rear Rch(-)



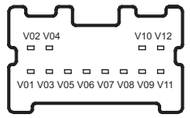
PP-2664D-A
PP-2664D-B

Main PWB-B,C(B1) section

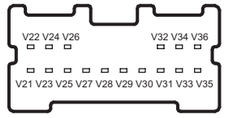
V01	CD Lch(-)	V07	N.C.
V02	CD Lch(+)	V08	REQ(CD -> Combi)
V03	CD Rch(-)	V09	RX(CD -> Combi)
V04	CD Rch(+)	V10	TX(Combi -> CD)
V05	GND	V11	N.C.
V06	Sheild-GND	V12	N.C.

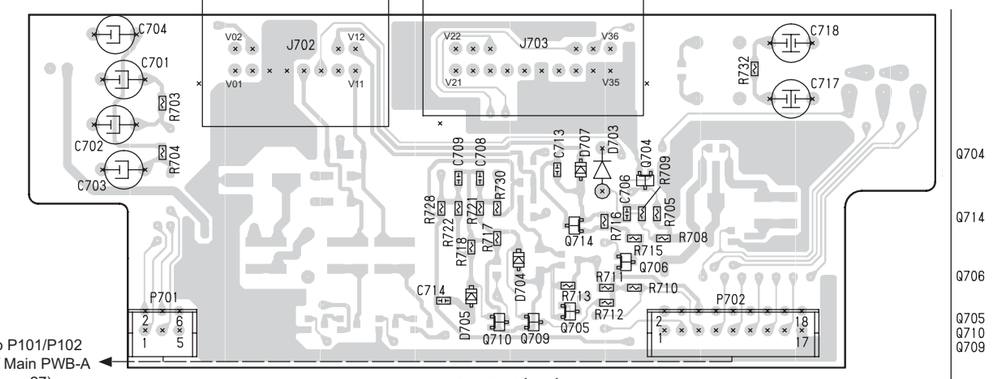
V21	N.C.	V29	REMO-GND
V22	SPEED SIG	V30	N.C.
V23	N.C.	V31	N.C.
V24	N.C.	V32	N.C.
V25	N.C.	V33	GND
V26	REMO-A	V34	NAVI IN(-)
V27	REMO-B	V35	NAVI-GND
V28	NAVI-ON	V36	NAVI IN(+)

A-12 MW
(NDS-Auto changer)



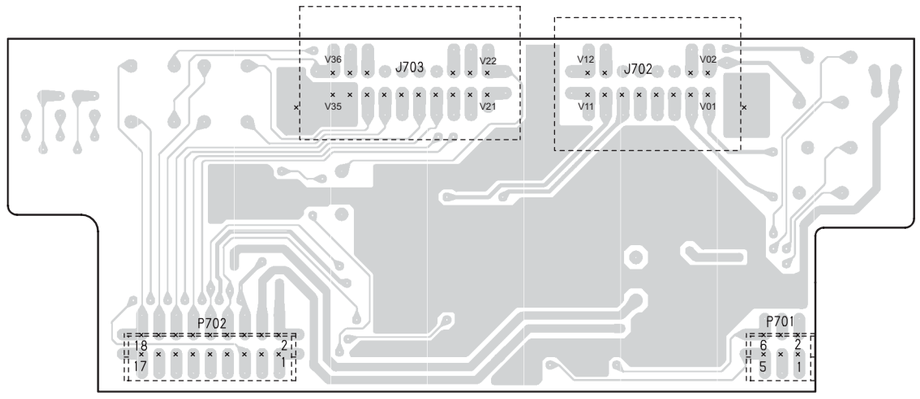
A-16 MW
(Remote control)





Main PWB-B(B1)

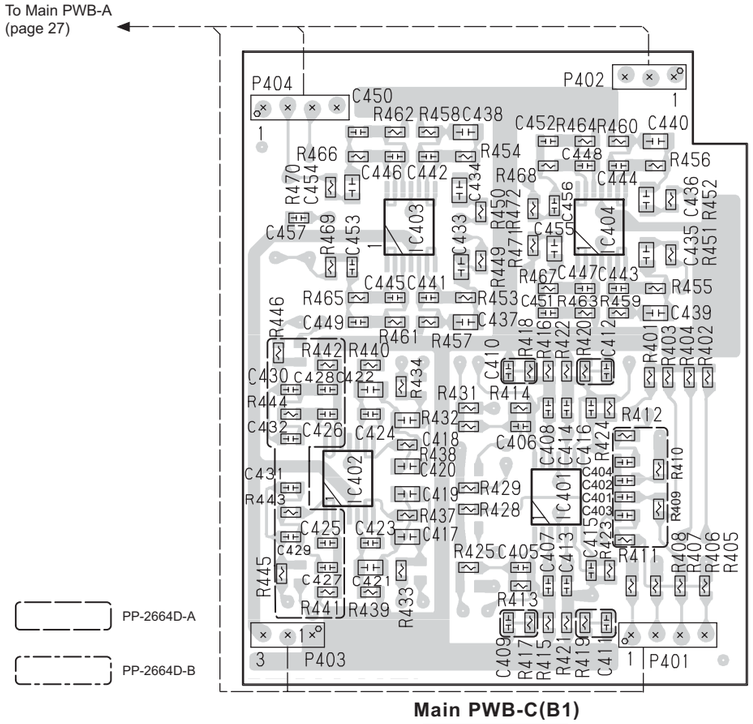
COMPONENT SIDE



Main PWB-B(B1)

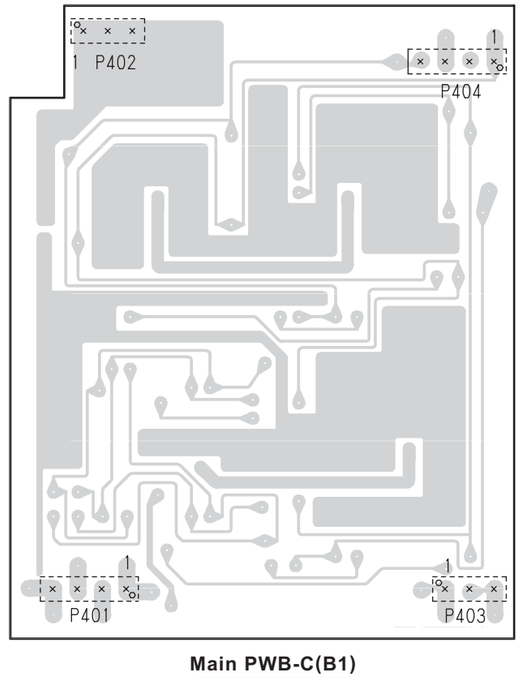
SOLDER SIDE

To Main PWB-A
(page 27)



Main PWB-C(B1)

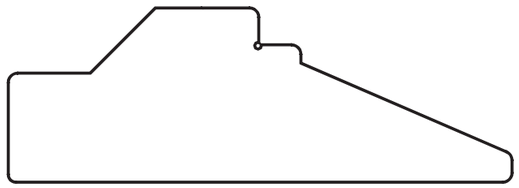
COMPONENT SIDE



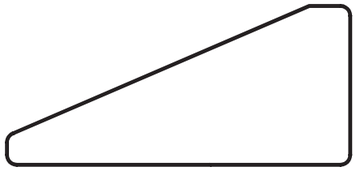
Main PWB-C(B1)

SOLDER SIDE

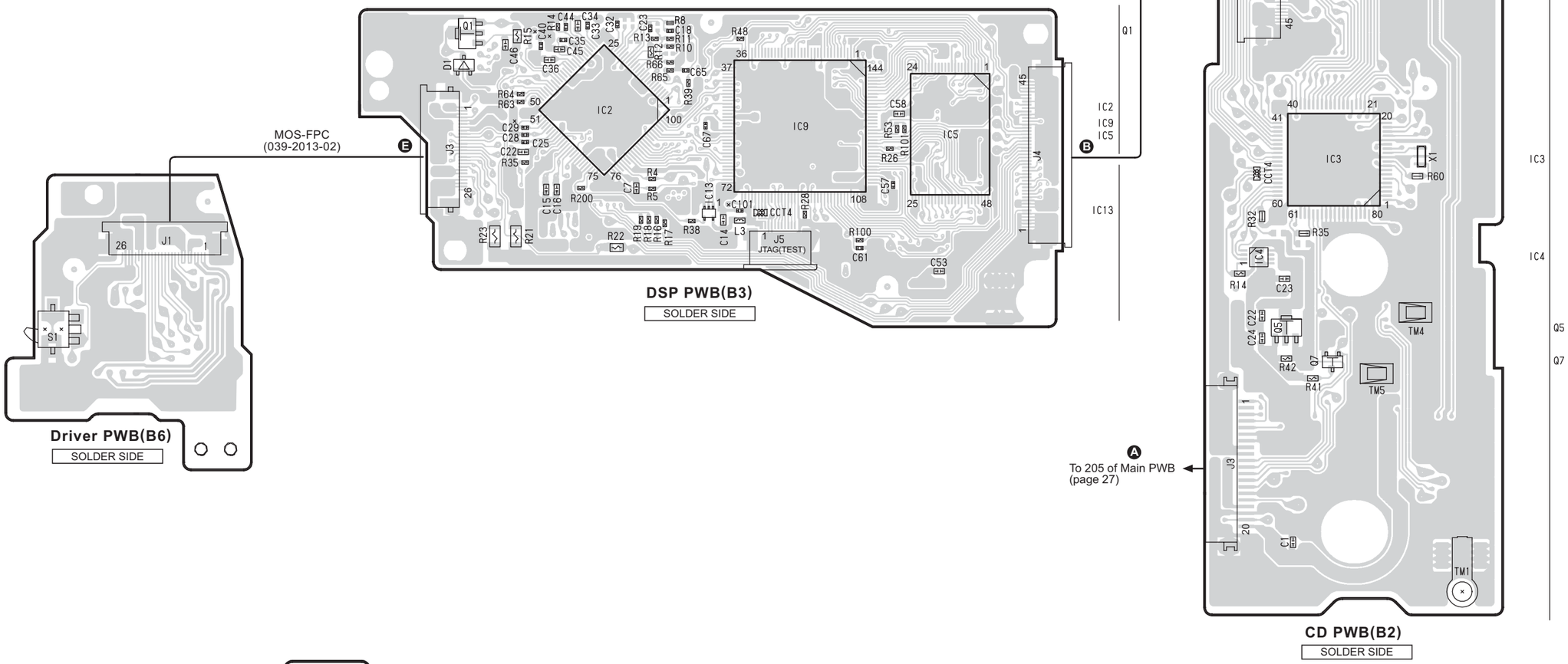
CD PWB(B2) section
DSP PWB(B3) section
Sensor PWB(B4) section
Driver PWB(B6) section
LED-L-PWB(B8) section
LED-R-PWB(B9) section



LED-R-PWB(B9)



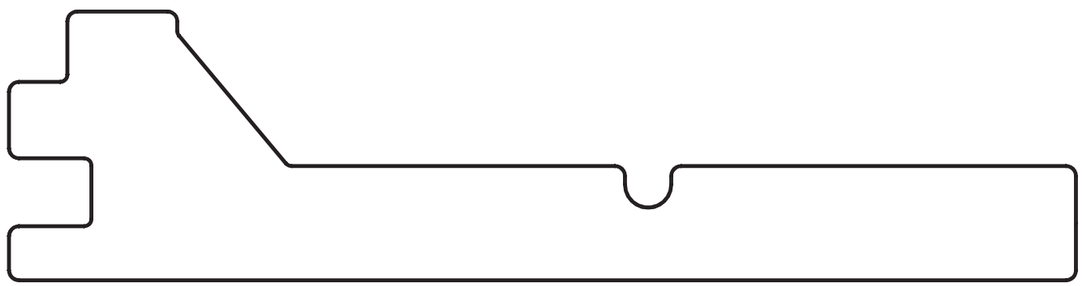
LED-L-PWB(B8)



DSP PWB(B3)
SOLDER SIDE

Driver PWB(B6)
SOLDER SIDE

CD PWB(B2)
SOLDER SIDE

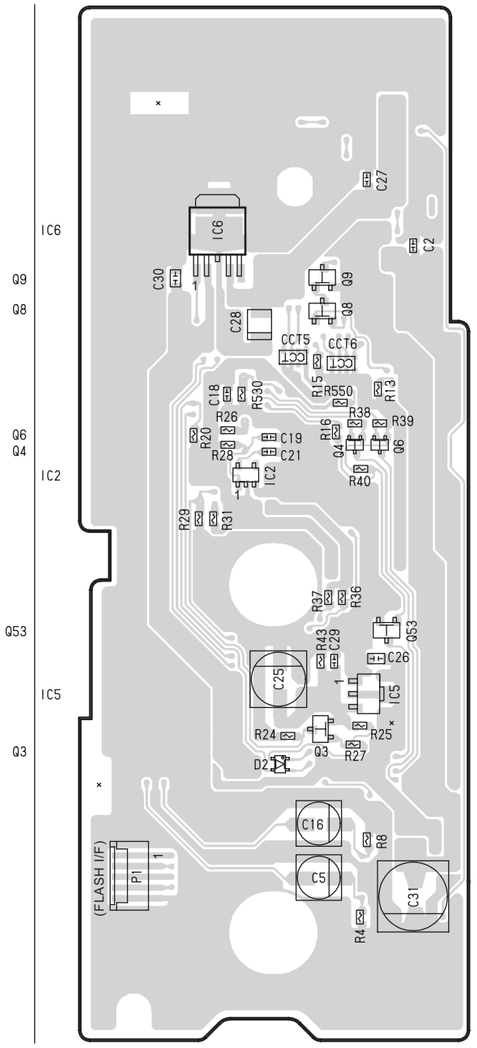


Sensor PWB(B4)

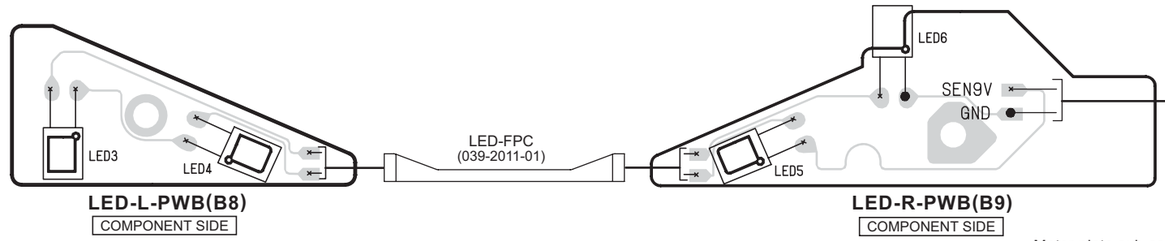
PP-2664D-A
PP-2664D-B

CD PWB(B2) section
DSP PWB(B3) section
Sensor PWB(B4) section
PIM-FPC(B5) section
Driver PWB(B6) section

PIV-FPC(B7) section
LED-L-PWB(B8) section
LED-R-PWB(B9) section
L-Motor-FPC(B10) section
M/S-FPC(B11) section

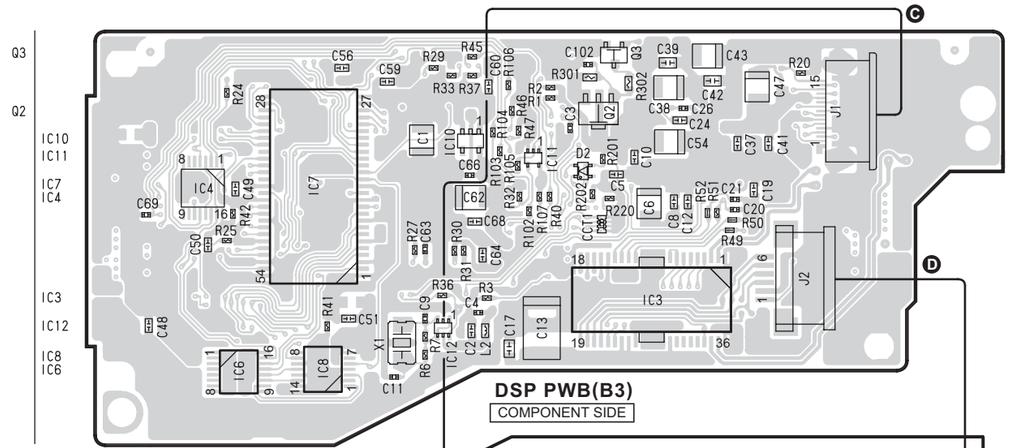


CD PWB(B2)
COMPONENT SIDE

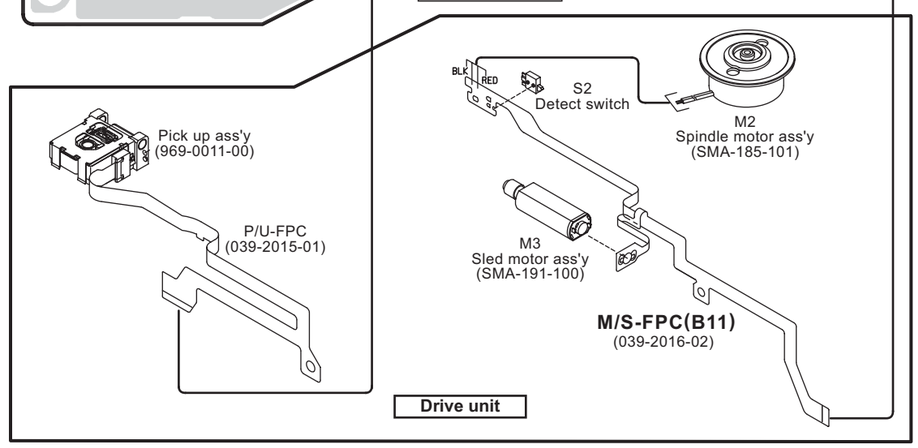


LED-L-PWB(B8)
COMPONENT SIDE

LED-R-PWB(B9)
COMPONENT SIDE

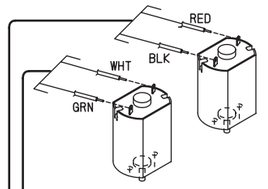


DSP PWB(B3)
COMPONENT SIDE

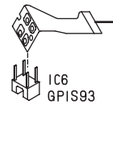


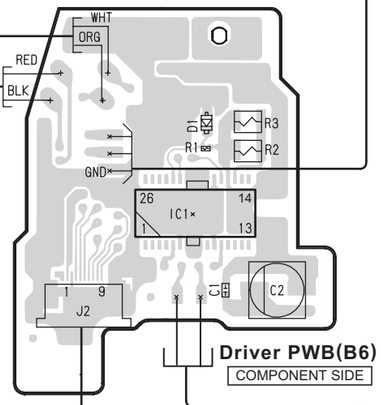
Drive unit

Motor plate sub ass'y
(HBS-530-100)



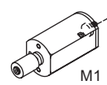
PIV-FPC(B7)
(039-2010-00)



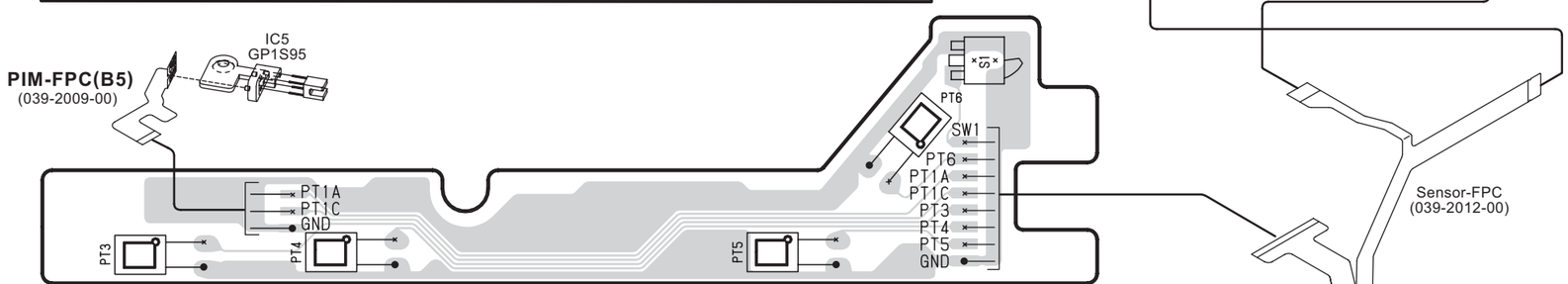


Driver PWB(B6)
COMPONENT SIDE

L-Motor-FPC(B10)
(039-2014-01)



M1
Loading motor ass'y
(SMA-186-100)

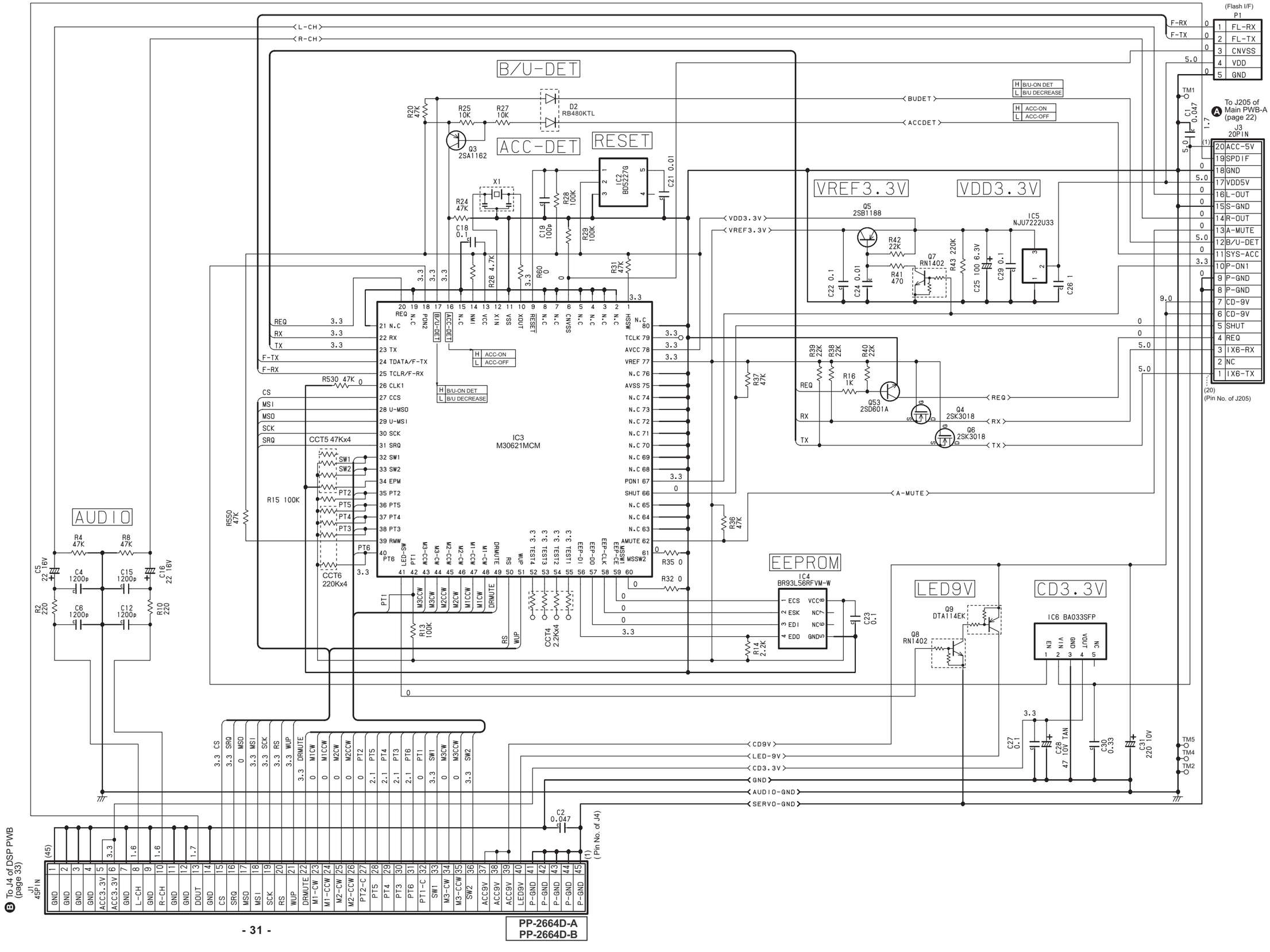


Sensor PWB(B4)
COMPONENT SIDE

PP-2664D-A
PP-2664D-B

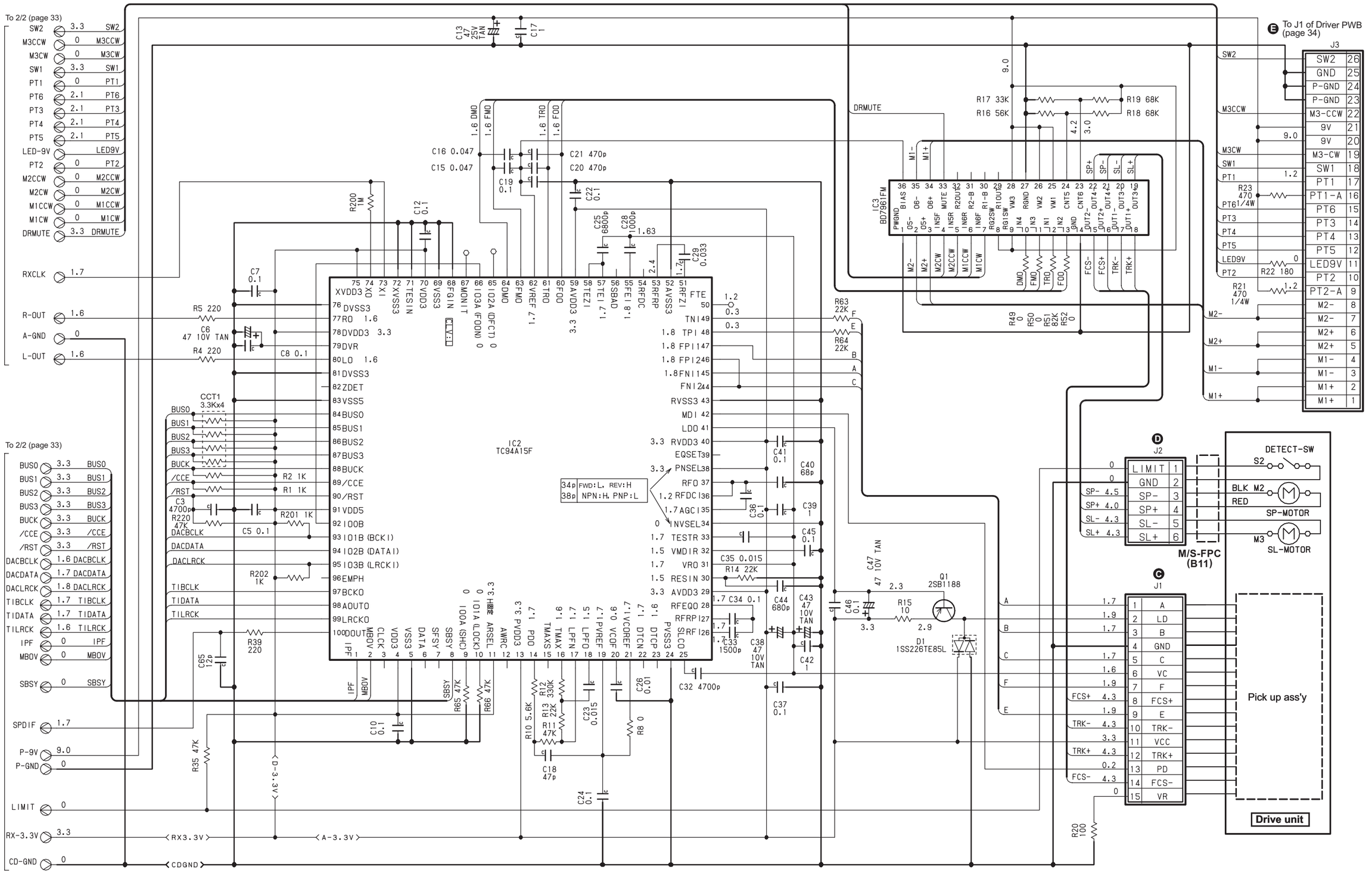
CIRCUIT DIAGRAM

CD PWB(B2) section



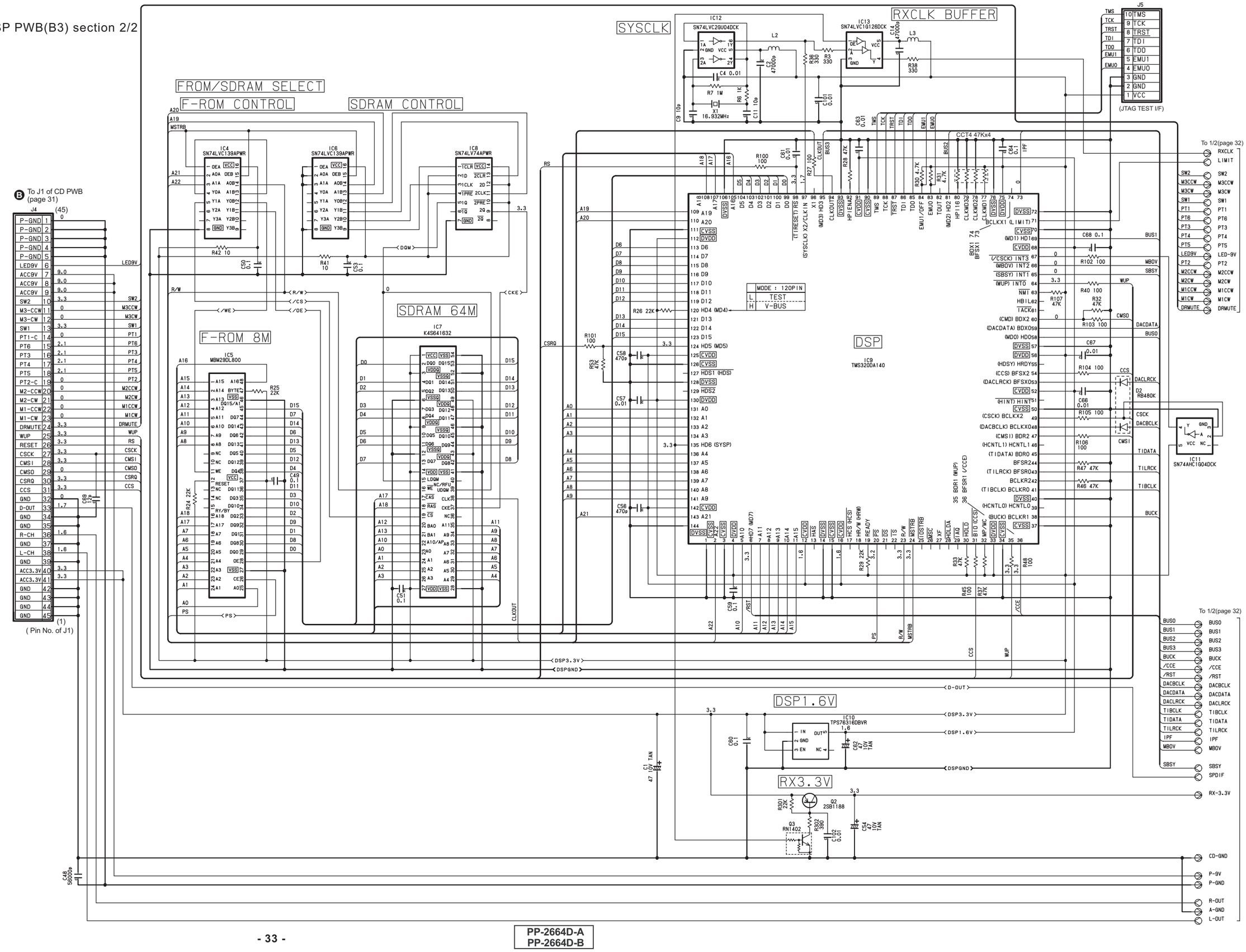
PP-2664D-A
PP-2664D-B

DSP PWB(B3) section 1/2
MS-FPC(B11) section



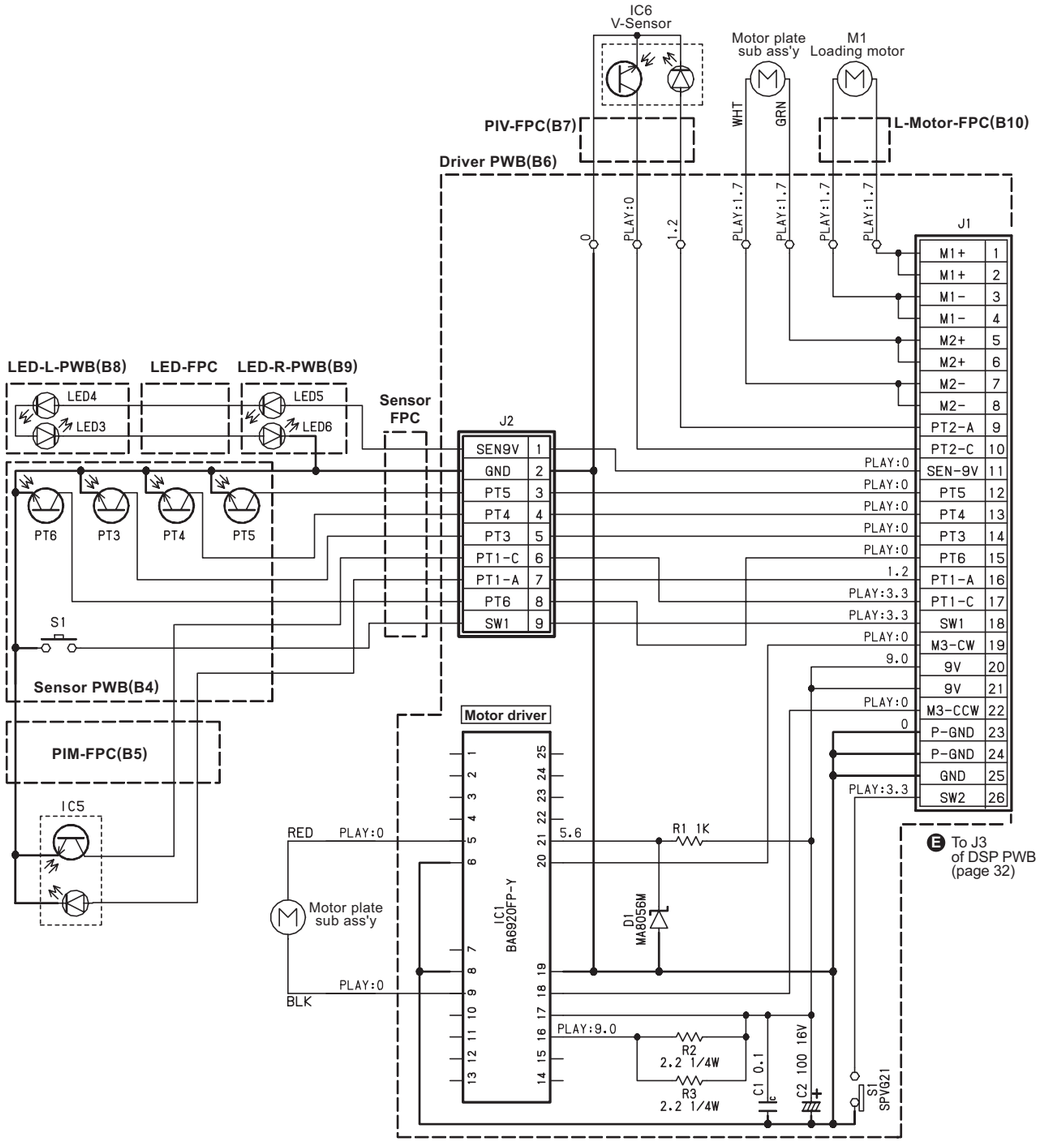
PP-2664D-A
PP-2664D-B

DSP PWB(B3) section 2/2



PP-2664D-A
PP-2664D-B

Sensor PWB(B4) section
PIM-FPC(B5) section
Driver PWB(B6) section
PIV-FPC(B7) section
LED-L-PWB(B8) section
LED-R-PWB(B9) section
L-Motoer-FPC(B10) section



PP-2664D-A
PP-2664D-B